1

Absorbents

CATEGORIES

1 Overview

2 Enviro Sorb Pads and Socks

3 Enviro Sorb Booms, Rugs and Rolls

4 Safety Absorbents

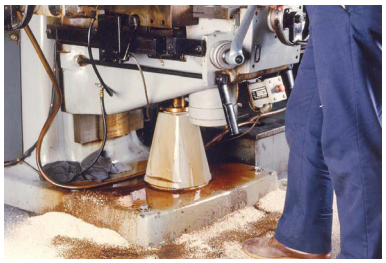
PRO CHEM®

9/12/2025

ABSORBENTS

Why Does Your Facility Need Sorbents?

- Spill cleanup
- Fluid control
- Slip and fall prevention
- Local/state/federal regulations
- Good housekeeping

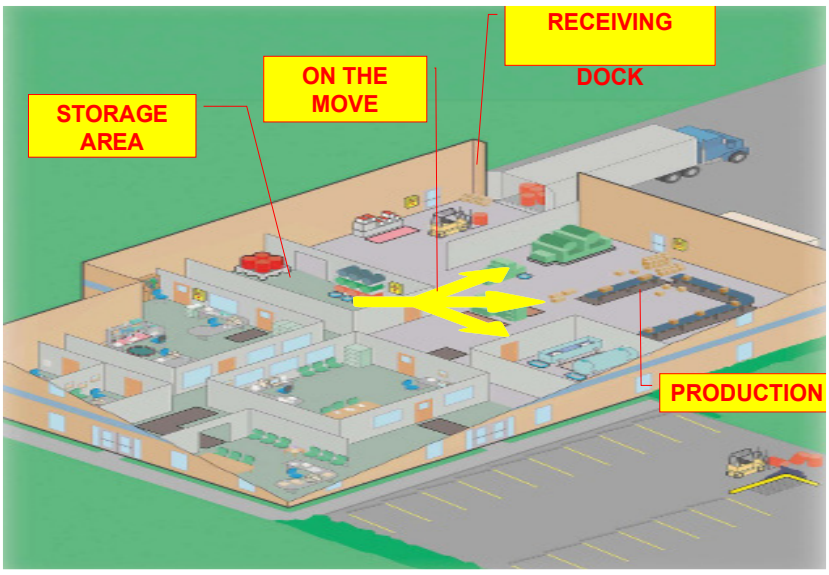




What Areas in Your Facility Need Sorbents?

Receiving Dock - Liquids enter a facility through the receiving dock. Containers can be dropped, ruptured, mishandled or punctured. Tanker truck valves, couplings and hoses might leak or rupture.

Storage Areas - There is the potential for slow leaks from containers where the liquid can begin to collect and pool creating not only a slip and fall hazard, but could possibly be a violation of Federal Regulation for Secondary Containment.



Most industrial sites are located within a city or county infrastructure. In this situation, drains in the building lead to the local waterway or sewage treatment facility. This customer utilizes the area around the dispensed product. In order to follow local waste laws, he needs to prevent the overflow from going into the drain. He purchased one of our drain covers to enable him to be compliant.

Production - Not only is there the potential for slip and fall risk in your production area, used fluids and sorbents must be collected from machines and processes, placed in containers, and put into storage.

Moving and Dispensing Areas - Once removed from storage, the liquids are either pumped directly into a machine or process or it is dispensed into smaller containers.

Familiarize Yourself With the Law - Disposal regulations usually vary by state, and even local municipalities. It is recommended that you familiarize yourself with the laws that govern your customer's area by refering to the EPA's website at www.epa.gov. You will be able to identify whether your customer has wastes considered to be hazardous.



ENVIRO SORB UNIVERSAL PAD #3860

Absorbent

Features:

- Made from recycled fibers
- Durable
- Perfect for heavy traffic areas
- Size: 15” x 18” x 3/8”
- 100/Case
- Absorbs up to 29.95 oz. per pad



Description:

ENVIRO SORB UNIVERSAL PADS outer layers of tough-skinned material resists abrasions, tears and can withstand rough handling. It won't tear apart when pulled or positioned under equipment. Grunge-hiding gray signifies universal sorbency for oils, coolants, solvents and water. The ENVIRO SORB UNIVERSAL PAD’S polypropylene fibers are interwoven to virtually eliminate fibers from becoming detached and contaminating equipment, tools or parts. Check out the Pro Chem Sorbent Guide for more detailed information on the ENVIRO SORB line of products.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Soft pad
Odor:	None to mild
Boiling Point:	Not available
Vapor Pressure:	Not applicable
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Not known
Bulk Density @ 20°C:	0.4 g/cc - 0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in a cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:
Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse empty containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:

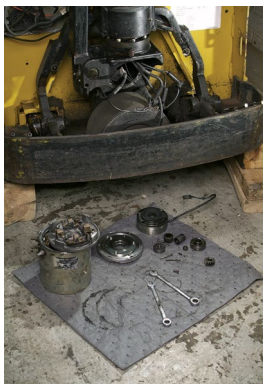


Signal Word:

Not applicable.

Personal Protective Equipment Required:











ENVIRO SORB OIL-ONLY PAD #3863

Absorbent

Features:

- Made from recycled fibers
- Perfect for heavy traffic areas
- Durable
- Non-shredding
- Size: 15” x 18” x 3/8”
- Count: 100/Case
- Absorb up to 13x its weight



Description:

ENVIRO SORB OIL-ONLY PAD is naturally water resistant (hydrophobic). A random assembly of large-diameter polyfibers creates a lofty inner layer that absorbs high volumes of oil, but not water, fast. It is a low-profile sorbent can be used wherever you need to catch oil leaks, spills or overspray. They can be placed on lakes, ponds and other bodies of water, where oil is present and needs to be removed without absorbing the water. The OIL–ONLY PAD’S heavy weight construction offers the greatest sorbency. Check out Pro Chem’s Sorbent Guide for more detailed information on the ENVIRO SORB line of products.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Soft pad
Odor:	None to mild
Boiling Point:	Not available
Vapor Pressure:	Not applicable
Water Solubility:	Negligible
Vapor Density	Not available
Flash Point:	Not known
Melting/Freezing Point:	302°F - 338°F (150°C - 170°C)
Bulk Density @ 20°C:	0.4 g/cc - 0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:

Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:

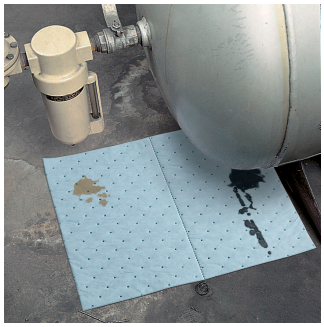


Signal Word:

Not applicable.

Personal Protective Equipment Required:





ENVIRO SORB HAZMAT PADS #SP386801

Absorbent

Features:

- Made from recycled fibers
- Perfect for heavy traffic areas
- Durable
- Non-shredding
- Size: 15” x 19”
- 100 per case
- Absorbs up to 31.62 oz. per pad



Description:

ENVIRO SORB HAZMAT PAD’S 100% polypropylene construction quickly absorbs nearly any type of caustic, hazardous or unknown liquid including acids, bases, solvents and chemicals. This product is color-coded Safety Yellow for fast identification; know exactly what you're reaching for in an emergency spill situation. Ultrasonic bond points fuse layers of fibers together. The pad will keep its shape, even when completely saturated. Its top layer of lint-free fabric provides extra strength. Check out Pro Chem’s Sorbent Guide for more detailed information on the ENVIRO SORB line of products.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Yellow, soft pad
Odor:	None to mild
Boiling Point:	Not available
Vapor Pressure:	Not applicable
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Not known
Melting/Freezing Point:	302°F - 338°F (150°C - 170°C)
Bulk Density @ 20°C:	0.4 g/cc-0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:
Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:



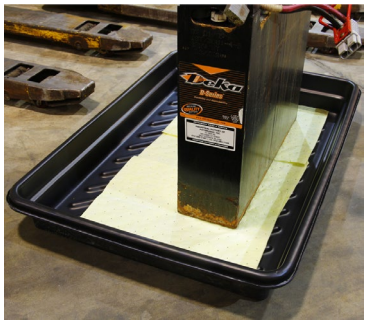
Signal Word:

Not applicable.

Personal Protective Equipment Required:









ENVIRO SORB DRUM TOP PADS #3864

Absorbent

Features:

- Made from recycled fibers
- Durable
- Precut holes for easy access to drum
- Absorbs up to 8.6 gal per pad
- 25 per case
- Diameter: 22”
- Pads can be removed and replaced with pumps and valves installed



Description:

ENVIRO SORB DRUM TOP PADS are engineered with a “non-linting” layered surface making them ideal for work areas. Absorbs drips from leaking pumps to help keep drum storage areas looking good. Other applications include conditions where aggressive or non-aggressive fluids are present. Check out Pro Chem’s Sorbent Guide for more detailed information on the ENVIRO SORB line of products.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Soft pad
Odor:	None to mild
Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Melting and Freezing Points:	150°C-170°C
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Not known
Bulk Density @ 20°C:	0.4 g/cc - 0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in a cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:
Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed to liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:



Signal Word:

Not applicable.

Personal Protective Equipment Required:









ENVIRO SORB UNIVERSAL SOCKS #3862

Absorbent

Features:

- Made from recycled fibers
- Perfect for heavy traffic areas
- Durable
- Size: 3” x 46”
- Count: 40/case
- Absorbs up to 0.5 gal. per sock



Description:

ENVIRO SORB UNIVERSAL SOCKS are used to absorb water-based, oil-based and other nonaggressive fluids. Easy flexibility allows for bending around machinery bases for open-floor spill containment. Check out Pro Chem’s Sorbent Guide for more detailed information on the ENVIRO SORB line of products.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Soft pad
Odor:	None to mild
Boiling Point:	Not available
Vapor Pressure:	Not applicable
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Not known
Melting/Freezing Point:	302°F - 338°F (150°C - 170°C)
Bulk Density @ 20°C:	0.4 g/cc - 0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:

Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:



Signal Word:

Not applicable.

Personal Protective Equipment Required:









ENVIRO SORB OIL-ONLY BOOMS #3866

Absorbent

Features:

- Made from recycled polypropylene filler
- Durable
- Easy to use
- Non-shredding
- Size: 8” x 20’
- 2 booms per case
- Absorbs up to 19 gallons per boom



Description:

ENVIRO SORB OIL-ONLY BOOMS only absorb oily liquids. The polypropylene filler is left in its natural hydrophobic state, meaning it repels water (and floats) while only absorbing oils and other hydrocarbons. The bright white color makes it easy to see when the boom is completely saturated. You save money by not throwing it away too soon. ENVIRO SORB BOOMS won't sink, even when saturated with oil.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Soft pad
Odor:	None to mild
Boiling Point:	Not available
Vapor Pressure:	Not applicable
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Not known
Melting/Freezing Point:	302°F - 338°F (150°C - 170°C)
Bulk Density @ 20°C:	0.4 g/cc - 0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:

Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:



Signal Word:

Not applicable.

Personal Protective Equipment Required:









ENVIRO SORB UNIVERSAL BOOMS #3867

Absorbent

Features:

- Made from recycled polypropylene filler
- Durable
- Color coded
- Easy to use
- Filler won't shed
- Size: 5" x 10'
- Count: 4 booms per case
- Absorbs up to 5.8 gal per boom



Description:

Use ENVIRO SORB UNIVERSAL BOOMS for a fast, efficient response. Just one of these polypropylene-filled, high-capacity booms can contain and soak up an average of 5.8 gallons. Color coding helps you visually identify the right sorbent for your needs. Grunge-hiding gray signifies universal sorbency for oils, coolants, solvents and water.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Gray, soft pad
Odor:	None to mild
Boiling Point:	Not available
Vapor Pressure:	Not applicable
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Not known
Melting/Freezing Point:	302°F - 338°F (150°C - 170°C)
Bulk Density @ 20°C:	0.4 g/cc - 0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:

Not regulated.



Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:



Signal Word:

Not applicable.

Personal Protective Equipment Required:



ENVIRO SORB HIGH TRAFFIC MAT #3874

Universal Absorbent Floor Mat

Features:

- Feet and forklifts move safely and easily over mat
- Sticks tight and flat to the floor at all times
- Durable, interlocking fiber construction
- Captures water, melting snow, dirt and grease
- Can sweep, mop or vacuum mat
- NFSI (National Floor Safety Institute) and ADA compliant for wheelchairs and walkers
- Cuts easily to create customized coverage in any area of your facility





Specifications:

- Roll Size: 36” x 50’
- Absorbency: Up to 4 gallons per roll
- Color: Gray
- Composition: Polypropylene/polyester adhesive backing
- Incinerable: Yes

Description:

The ENVIRO SORB HIGH TRAFFIC MAT is long-lasting and durable. It is comprised of two layers, the top, absorbent layer and the bottom, adhesive layer. The top layer draws liquids towards the center of the mat and holds them there. It absorbs high volumes of liquid fast. The grunge-hiding gray signifies universal sorbency for oils, coolants, solvents and water.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

INSTALLATION DIRECTIONS:

Step 1: Surface Preparation: Clean and dry floor thoroughly for best grip and overall performance.
Step 2: Cut to size with a safety knife.
Step 3: Repositioning: Position the mat, smooth out and press into place.
Step 4: Trim edges. For heavy traffic areas, trim corners at 45° angles

MAINTENANCE:

Frequency of Changeouts: The HIGH TRAFFIC MAT is extremely durable and designed to last up to 12 weeks. If the mat shows obvious signs of wear or a weakened bond to the floor before the end of that time frame, it should be replaced
NOTE: Do not pick up mat to clean the floor underneath until you are ready to replace it
Drying: This mat is highly absorbent and fast drying. Absorbed water will evaporate; standard fans or floor blowers can be used for accelerated drying. For extremely wet conditions, use a wet vac or extractor to remove water.
Cleaning: The HIGH TRAFFIC MAT is low-profile and extremely durable so it can be left in place during daily cleaning. Floor scrubbers, vacuums, brooms and mops pass right over without damaging the surface of the mat. Standard floor scrubbers can be used to clean it. For best results, use low settings for water and pressure. Mat should be as dry as possible before cleaning with floor scrubbers. Tougher stains can be pretreated with standard cleaning products and agitated with a brush or scotch pad to loosen the soil.

WET SEASON/WINTER WEATHER MAINTENANCE:

Excessive rain, snow, ice, slush and salt make it hard to keep floors dry. We suggest the following best practices to help your mat keep up with the mess:

1. Use longer runs or wider widths to minimize tracking.
2. Use a wet-vac, Rug Doctor or extractor to remove excess water; the mat won’t budge!
3. The mat is very low profile so mops, scrubbers and extractors pass right over.
4. Use an air blower to speed up evaporation and eliminate the need for rug changeouts.

ENVIRO SORB CART ROLL #3439

Universal Absorbent Floor Mat

Features:

- Easier to use than floor sweep
- Reduces cleanup time
- Free of damaging grit and dust making it perfect for use around delicate sensors, parts and tools
- Keeps dirt and grit on the mat, not tracked around on the floor
- Universal sorbent
- For use with ENVIRO SORB DISPENSING RACK #4861



Specifications:

- Roll Size: 15” W x 50’ L
- Sold As: 12 rolls per package
- Absorbency: Up to 53.4 gallons per dozen and up to 4.45 gallons per roll
- Color: Gray
- Composition: Polypropylene

Description:

The ENVIRO SORB CART ROLL is the better way to soak up drips, spills and splatters. Long lasting and durable, it traps dirt and grit. The rolls are perforated every 10" and have 60 pads/towels per roll. When used with the ENVIRO SORB DISPENSING RACK, it makes keeping the floor clean and free of any slip hazards a quick and easy job.

For Use By:

- Manufacturing Plants
- Freight Carriers
- Warehouses
- Factories
- Bus Garages
- Railroads
- Fleet Operations
- Water Treatment Plants

Applications:

- Oil
- Gasoline
- Battery Acid
- Coolants
- Solvents
- Grease
- Water
- Auto Fluids
- Paint Overspray





ENVIRO SORB DISPENSING RACK #4861

Magnetic Roll Holder

Features:



- Holds one 15” W x 50’ L roll for easy, one-hand dispensing
- Durable, powder-coated steel resists chips, rust and corrosion
- Powerful magnets keep it firmly in place during dispensing
- Can be relocated very easily with no tools
- Dimensions: 5.5” W x 17” L x 2” H
- For use with ENVIRO SORB CART ROLL #3439

Description:

This convenient DISPENSING RACK makes keeping your mat rolls clean and accessible easy. It will mount to any metal surface. The rack keeps your mats off the floor and close at hand.

For Use By:

- DOT’s
- Refineries
- Gas Companies
- Freight Carriers



ENVIRO SORB UNIVERSAL RUG #3865

Absorbent

Features:

- Made from recycled fibers
- Durable
- Perfect for heavy traffic areas
- Size: 36” x 150’
- Absorbs up to 84.6 oz. per package



Description:

ENVIRO SORB UNIVERSAL RUGS are designed with non-shredding, layered and recycled materials making them ideal for a wide variety of applications. This is a universal, natural fiber rug designed for applications requiring durability in heavy foot or forklift traffic areas. This material is made from recycled fibers and can be cut to desired lengths. Check out Pro Chem’s Sorbent Guide for more detailed information on the ENVIRO SORB line of products.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Gray, ground up cellulose
Odor:	Ammonia-like or slight damp odor
Boiling Point:	Not applicable
Vapor Pressure:	Inner Material: Negligible @ 68°F (20°C)
Water Solubility:	Inner Material: Cellulose fibers are not soluble
Fire Retardant:	Miscible
Vapor Density:	Not applicable
Flash Point:	Not known
Auto-Ignition Temp:	>450°F (>232°C)
Melting/Freezing Point:	Outer Material: 302°F - 338°F (150°C - 170°C)
Storage:	Avoid puncturing or tearing outer material. Avoid creating dust. Store at room temperature.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:

Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:



Signal Word:

Not applicable.

Personal Protective Equipment Required:









ENVIRO SORB UNIVERSAL ROLLS #3861

Absorbent

Features:

- Made from recycled fibers
- Perfect for heavy traffic areas
- Durable
- Non-shredding
- Size: 30” x 150’
- Count: 1 roll
- Absorbs up to 44.4 gal. per roll



Description:

The ENVIRO SORB UNIVERSAL ROLL is long-lasting and durable for rugged applications. Its inner layer draws and holds liquids from the outer layers. It absorbs high volumes of liquid fast. The grunge-hiding gray signifies universal sorbency for oils, coolants, solvents and water. The roll is perforated every 7.5" vertically and every 17" horizontally to tear off only what you need. Check out Pro Chem’s Sorbent Guide for more detailed information on the ENVIRO SORB line of products.

Applications:

- Manufacturing Plants
- Warehouses
- Processing Areas
- Assembly Lines

Product Characteristics:

Appearance:	Soft roll
Odor:	None to mild
Boiling Point:	Not available
Vapor Pressure:	Not applicable
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Not known
Melting/Freezing Point:	302°F - 338°F (150°C - 170°C)
Bulk Density @ 20°C:	0.4 g/cc - 0.7 g/cc
Storage:	Minimize dust generation and accumulation. Store in cool, dry place.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:

Not regulated.

Directions:

Sorbents will take on the characteristics/properties of whatever liquid is absorbed. Therefore, all measures must be taken as if you were handling the liquid itself. Sorbents do not make the liquid less hazardous. Refer to absorbed liquid(s) SDS(s) before proceeding. The container can be hazardous when empty. Follow label cautions, even if the container is empty. Do not reuse containers for food, clothing or products for animal or human consumption or where skin contact can occur. Please follow company procedure.

Pictograms:



Signal Word:

Not applicable.

Personal Protective Equipment Required:









SAFETY FIRST #3473

Anti-slip Safety Absorbent

Features:

- Fast: immediately soaks up moisture, grease, oil, water and other liquids
- Provides traction on wet, oily and even icy surfaces
- High powered: Absorbs up to 3 to 5 times more liquids than other similar products
- Environmentally safe: no harsh chemicals, no corrosive agents, non-flammable
- Improves safety
- Manufactured to meet or exceed the requirements of NIOSH with respect to respirable silica: has been tested by NIOSH method 7500 (x-ray diffraction) and is shown to contain <1% respirable silica
- Not detectable cristobalite
- Food Processing Acceptability: J1
- Available in 400 lb drum and 40 lb pail



Description:

SAFETY FIRST begins absorbing liquid spills immediately upon contact. The high absorbency of this material means treated surfaces will stay drier longer. Regular use will not cause drains or sewers to clog. This natural earth product will not pollute lagoons, streams or lakes. Non-biodegradable, inert mineral in particulate form. Certified free of respirable silica. Exceeds EPA landfill disposal rules. Passes point filter and TCLP test. Absorbs up to 150% of its weight.

Applications:

- Meat and Poultry Plants
- Power Plants and Utilities
- Hospitals
- Refrigerated Trailers
- Bottling Plants
- Chemical Manufacturing
- Food and Processing Plants
- Shipping/Receiving Docks
- Universities/Colleges

Product Characteristics:

Appearance:	Gray powder
Odor:	Odorless
Boiling Point:	Not available
Vapor Pressure:	Not available
Specific Gravity:	2.2-2.4
Water Solubility:	Negligible
Vapor Density:	Not available
Flash Point:	Non-flammable
Melting Point:	2300°C
Storage:	Keep container dry and tightly closed and sealed until ready for use.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:
Not regulated.

Directions:

Apply product on and around spill. Rub in with a stiff broom or shovel. Sweep up saturated product and reapply as needed to dry the floor. Remove saturated product immediately.

Pictograms:



Signal Word:

Not available.

Personal Protective Equipment Required:



CAPTURE NEW & IMPROVED #3119

Universal Spill Absorbent

Features:

- Not dusty or messy
- Nonhazardous, nontoxic, noncarcinogenic and noncombustible
- Completely encapsulates acids, caustics, oils, solvents, bodily fluids and more
- Drastically reduces cleaning time and disposal costs
- Reduces slipping hazards
- Landfill acceptable
- Absorbs fast and many times its weight
- Odorless



Description:

CAPTURE NEW & IMPROVED is a highly efficient, lightweight, naturally occurring, amazingly absorbent material. It reduces time, effort, equipment and landfill space and exceeds all standards set by the Environmental Protection Agency's regulations regarding disposal of liquid waste. This dust-free formula eliminates airborne particles, making it a safe noncarcinogenic product. Safe to use on all surfaces. It leaves no residue so mopping is not required after cleanup.

Applications:

- Water and Oil Based Paints
- Run-off Water
- Vomit
- Urine
- Plumbing Leaks
- Blood
- Coolant
- Grease
- Roof Leaks
- Sewage Overflow
- Gas
- Transmission Fluid
- Oils: Motor oils, diesel, hydraulic, mineral, vegetable, etc.
- Solvents: Acetone, methyl ethyl ketone (MEK), cyclohexanone, methlyene chloride, toluene, xylene, antifreeze
- Alcohols: Methyl, ethyl, isopropyl and butanol
- Caustics: Sodium hydroxide and potassium hydroxide
- Mineral Acids: Sulfuric, hydrochloric, perchloric, phosphoric

Product Characteristics:

Appearance:	Mostly white powder/granules
Odor:	None
Boiling Point:	Not applicable
Vapor Pressure:	Not applicable
Specific Gravity:	Not applicable
Solubility (water):	Insoluble to sparingly soluble
Solubility (alkaline solutions):	Somewhat soluble
Flash Point:	Not applicable
pH:	6.5-7.5
Bulk Density	5 – 25 pounds per cubic foot
Storage:	Keep container tightly closed when not being used.
Transport Information:	
UN Number:	Not regulated
Proper Shipping Name:	Not regulated
Class:	Not regulated
Packing Group:	Not regulated

Directions:

CAPTURE is not hazardous to one's health, but the liquid being absorbed could be. Use the same precautions you would have in place for a spilled liquid.

Step 1: Sprinkle CAPTURE directly upon the spilled liquid. In the case of a flowing spill, place it in front of the spill creating a dam. Less is needed for thick liquids such as motor oil, while more product may be necessary for thin liquids like alcohol.

Step 2: Mix CAPTURE into the spill in a circular motion with a stick, rake or stiff-bristle broom until the liquid is completely absorbed. Encapsulation will occur upon contact with the liquid.

Step 3: After the spill has been absorbed, remove the captured liquid with a broom and dustpan. Dispose according to federal, state and local regulations.

CAUTION Do NOT use with hydrofluoric acid.**

Pictograms:

Not hazardous according to GHS criteria.

Signal Word:

None.

Personal Protective Equipment Required:



DOT Placard:

Not regulated.

THIRSTY #3101

Super-Absorbent Deodorizer for Urine and Vomit Spills

Features:

- Absorbs up to 100 times its weight in seconds
- Nontoxic and biodegradable
- Neutralizes odors
- Treated spills are easy to dispose of



Description:

THIRSTY works quickly to absorb, solidify and deodorize potentially hazardous liquids. It absorbs liquid at the rate of 100 times its weight in seconds. One container of THIRSTY will absorb over 5 gallons of liquid, thereby eliminating the need for mops, towels and rags while it neutralizes virtually all types of odors. It can be used on vomit, urine, blood, numerous different chemicals and virtually any liquid. Safe to use on carpet.

Applications:

- Gym Floors
- Wood Floors
- Spills
- Vomit
- Rugs & Carpets
- Tile Floors
- Matting
- Water
- Concrete
- Blood
- Urine
- Chemicals

For Use By:

- Hospitals
- Warehouses
- Nursing Homes
- Daycare Centers
- Colleges/Universities
- Correctional Facilities
- Sewage Plants
- Oil Fields
- Freight Carriers
- Schools
- Hotels
- Housing Authorities
- Public Facilities
- Steel Mills
- Municipalities
- Refineries
- Mining Operations
- Contractors
- Military Facilities
- Motels
- Public Transportation
- Food Processing Plants
- City & County Government
- Utility Companies
- Fleet Operations
- Golf Courses
- Railroads

Product Characteristics:

Appearance:	White, powder
Odor:	Pleasant
Flash Point & Method:	Not available
Solubility:	Not soluble
pH:	Not applicable
Auto-Ignition Temp:	Not applicable
Storage:	Store in a well-ventilated place. Store locked up.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated
Packing Group:	Not regulated

DOT Placard:

Not regulated.

Directions:

Put on rubber gloves and other protective clothing as required. Sprinkle THIRSTY over spilled fluid until completely covered. When liquid is congealed, remove with dustpan and broom. Disinfect area if necessary.

Pictograms:



Signal Word:

Warning.

Personal Protective Equipment Required:



2

Spill Control

CATEGORIES

1 Spill Response

2 Spill Control Products

3 Spill Control:Special Order

4 Spill Contol Kits

PRO CHEM®

CLEAN UP PROCEDURES FOR COMMON SPILLS

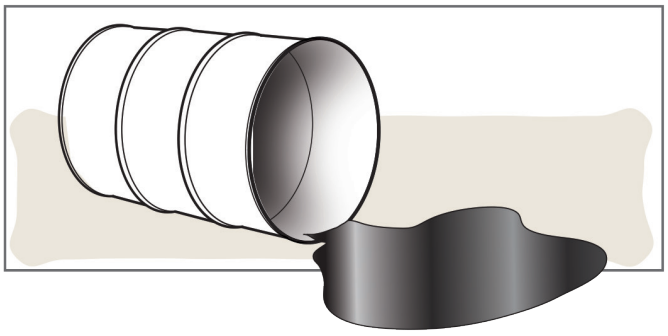
STEP 1

ISOLATE THE AREA

Identify spilled liquid and verify compatibility of spill cleanup material with the liquid to be absorbed.

Pro Chem's Universal Spill Kits are safe to use on all liquids except HF. Do not use if liquid is or contains HF (hydrofluoric acid). COMMON LIQUID IDENTIFICATION SOURCES:

- ID label on container, drum, pipe, truck or tank car
- Shipping or load manifest papers
- Bill of lading/packing list
- SDS sheets
- Visual appearance, color and/or odor



STEP 2

PROTECT YOURSELF

Open spill kit and put on appropriate Personal Protective Equipment (PPE) before proceeding.

At a minimum, it is recommended you use chemical resistant gloves and goggles.

Based on the liquid to be cleaned up, additional PPE may be required like:

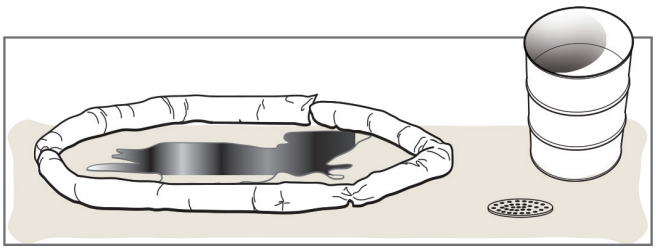
- Chemical coveralls
- Chemical resistant overboots
- Faceshield
- Respirators
- Hard hat



STEP 3

IMMEDIATELY PLACE SOCKS

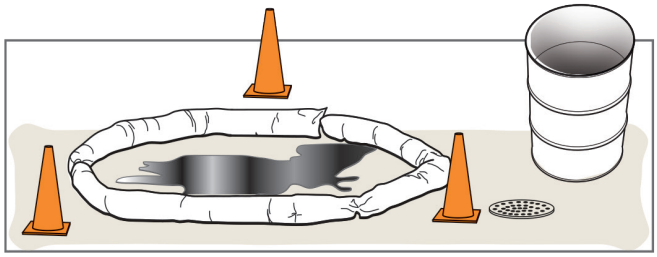
Immediately place socks around the spill to keep the liquid from spreading. Liquids must be prevented from entering floor drains or sewers.



STEP 4

CORDON OFF SPILL AREA

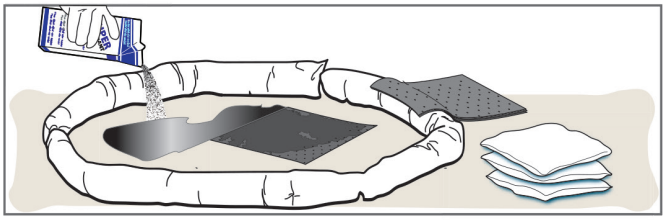
Cordon off the spill area to prevent guests or other employees from slipping on the liquids. Caution triangles, warning cones, empty drums or pails, trash cans and caution tape are commonly used to secure and cordon off the spill area.



STEP 5

COVER THE SPILL

Cover the spill with sorbent pads, pillows and/or Sorbent particulate to reduce vapors and soak up the liquid.



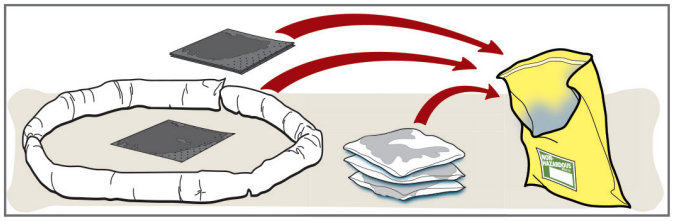
STEP 6

REMOVE SATURATED SORBENT

Remove saturated sorbent, place in temporary disposal bags and label.

If liquid remains, place new pads or pillows on the spill to soak up any remaining liquids.

Place all pads, pillows and containment socks into the temporary disposal bags provided.



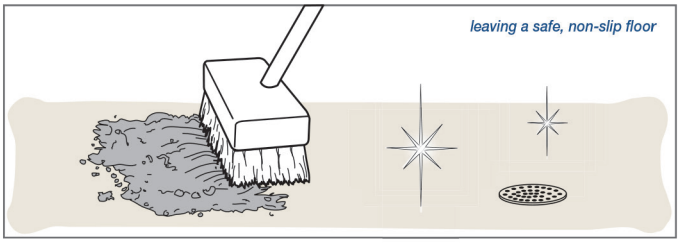
STEP 7

RE-COVER SPILL AREA

Recover spill area with Sorbent and work in with stiff broom. Sweep up Sorbent and place in temporary disposal bags.

Repeat this procedure if floor surface is wet or damp. Floor should be completely dry when cleanup is finished.

Properly remove PPE in order and place in disposal bags and seal.



Disposal

Disposal of spill debris must be in compliance with local, state and federal regulation.

It is your responsibility to meet those requirements.

It is the user's responsibility to determine suitability of sorbents to be used on specific liquids.

Some state and federal regulations exempt spill debris from disposal requirements as to not impede containment and cleanup efforts.

Further processing of specific liquids may be required prior to disposal.

Immediately replace used spill kit with a new one or refill used container for future emergency use.

SPILL CONTROL PRODUCTS

Special Order

The following items are available for special order.

Call Technical Support for more information should your customer have a need for one of these items.

DRUM CONTAINMENT PALLETS



431301 – **Poly Ramp**
(45 1/2" L x 32" W x 8" H)



430001 – **1 Drum (no drain)**
(26 1/4" W x 26" D x 6 1/2" H)



430201 – **2 Drum (with drain)**
(51" W x 26 1/4" D x 13 3/4" H)



430101 – **2 Drum (no drain)**
(51" W x 26 1/4" D x 13 3/4" H)

DRUM FUNNELS



430701 – **Burp Free Drum Funnel**
((13.375" diam x 11" H)



430601 – **Drum Safety Funnel**
(26" diam x 5.5" H)

OVERPACK DRUMS



430801 – 20 gl
(28.25" W x 37.37" L x 28.25" H)
430901 - 30 gl
(23" diam x 30.75" H)
431001 - 65 gl
(28.25" diam x 37.5" H)
431101 – 95 gl
(32" diam x 41.5" H

DRAIN COVERS



430501 – **Drain Cover - Square**
36" x 36"



430401 – **Drain Cover - Round**
12" x 12"

SPILL CONTROL PRODUCTS

Special Order

ROOF AND PIPE LEAK DIVERTERS



SP858201 – **Pipe Leak Diverters**
(18"L x 18"W)



SP858301 – **Roof Leak Diverter**
(5'L x 5'W)



SP858401 – **Roof Leak Diverter**
(10'L x 10'W)

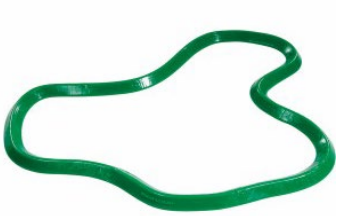


SP858601 – **Clear Drainage Hose**
(25'L)



SP858501 – **Rubber Hanging Straps**
(19" L)

SPILLCURB



SP858801 – **Connectable Spill Berm**
(10'L x 2.25"W x 1.375"H)

FLOOR GRABBER CARPET MAT



Floor Grabber Carpet Mat
(35" x 25')

VERTICAL ROLLRACK



SP859001 – **Vertical RollRack**
(For rolls up to 36"W)

FREE-STANDING ROLLRACK



SP823101 – **Free-Standing RollRack**
(For rolls up to 32"W)

Spill Control Kits

General Purpose Spill Kit 55 Gallon #385655:

Strategically located Spill Response Kits help meet EPA/OSHA requirements for Spill Prevention Control & Countermeasures (SPCC). Perfect for incidental leaks & spills. Containers protect sorbents from handling & environmental effects.

**Absorbs up to 52 gl*

*Not for use on hydrofluoric acid or HF compounds.

Quantity	Description
1	55 gl yellow drum
100	19" x 15" universal pads
18	3" x 4' universal socks
1	16 lb safety sorbent bag*
2	Self sealing disposable bags
6	Universal sorbent pillows 10"x 10"



General Purpose Spill Kit 6.5 Gallon #385606:

Same as the 55 gallon kit but contains (4) 4 ft. socks, (2) cartons safety sorbent, (5) pads & (2) disposal bags.

**Absorbs 4 gallons.*

*Not for use on hydrofluoric acid or HF compounds.

Quantity	Description
1	6.5 gl white drum
7	19" x 15" universal pads
4	3" x 4' universal socks
1	2 qt safety sorbent carton
2	Self sealing disposable bags

Battery Acid Spill Kit #385805:

The BATTERY ACID SPILL KIT provides a safe and effective method for controlling small acid spills.* For use in vehicles, battery charging stations, telephone cell sites and other locations with acid spill exposure. The spill kit is an efficient method to neutralize and absorb acid spills. This kit provides visible color change to indicate complete acid neutralization. It also helps meet your Regulatory Requirements: OSHA 1926.441 & 1910.178.

Absorbs up to 1.2 gallons.

**Not for use on hydrofluoric acid or HF compounds.*

Quantity	Description
1	6 ½ gl white pail
6	Acid safe cartons*
1	Pair nitrile gloves
1	Chemical goggles
1	Apron
1	Over boots
1	Faceshield
1	Dust pan & broom
2	Self sealing disposable bags
1	Instruction sheet



HazMat Spill Kit #385701:

Our HAZMAT SPILL KIT is safe to use on all liquid* spills. Placing the HAZMAT SPILL KIT in stragegic locations helps meet EPA/OSHA requirements for Spill Prevention Control & Countermeasures (SPCC). This spill kit comes in a clear, zippered bag that protects the sorbents from environmental damage. This zippered bag also makes the spill kit very portable and an excellent option to keep in vehicles.

Absorbs up to 6 gallons.

**Not for use on hydrofluoric acid or HF compounds.*



Quantity	Description
1	Clear zipper bag
10	19” x 15” universal pads
3	3” x 4’ universal socks
2	2 qt super sorbent cartons*
2	Self-sealing disposable bags
1	Instruction sheet

BLOODBORNE CLEANUP KIT #4736

Spill Control

Features:

- A safe and sanitary removal of spilled bodily fluids, blood and other potentially infectious substances
- Helps prevent workplace exposure to bloodborne diseases
- Complies with OSHA Bloodborne Pathogen Rule 29 CFR 1910.1030
- Does not contain disinfectant
- Kit includes: (1) Packet of absorbent powder, (1) Protective exam gloves (pair), (1) Protective face shield & mask, (1) Shoe covers(pair), (1) Apron, (1) Scoops/scraper, (1) Absorbent towel, (2) Antiseptic towels, (2) Disposable red biohazard bags with twist ties, (1) Instruction sheet



Description:

This blood and bodily fluid pathogen cleanup kit easily transforms liquid spills into an odorless, semi-solid mass for safe and sanitary disposal using a fluid absorbent powder (included). Kit contains all needed items to clean up and dispose of spilled bodily fluids, bloods or other substances, following OSHA requirements rule 29 CFR 1910.1030. Employers need this blood spill clean-up kit as an OSHA required adjunct to your first aid kits.

3

Patching, Coatings, Anti-Skid And Repair Products

CATEGORIES

1 Overview

2 Coatings

3 Patching

4 Repairing

PRO CHEM®

PATCHING, COATING, ANTI-SKID AND REPAIR MATERIALS

Why Does Your Facility Need to Use Patching, Coating, Anti-Skid and Repair Products?

Slips, trips and falls can cost a company:

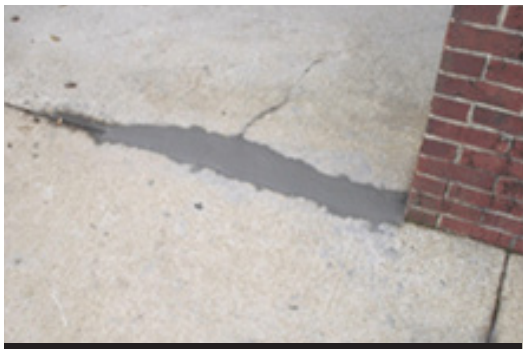
- Loss of productivity and business
- Increased Workers Compensation and insurance premiums
- Cost associated with hiring and training a replacement

Slip, trips and falls can cost an employee:

- Lost wages and out of pocket expenses
- Pain and possible disability
- Reduced quality of life or possible death

What Areas of Your Facility Can Benefit From Applying Patching, Coating, Anti-Skid and Repair Materials?

- Parking Lots
- Sidewalks
- Concrete Floors
- Concrete Walls
- Concrete Steps
- Ramps
- Water Lines
- HVAC Equipment
- Machinery and Equipment
- Facility Driveways
- Fuel Tanks
- Fuel Lines



Repair sidewalk cracks with SURE PATCH

Who Uses Patching, Coating and Repair Materials?

- Manufacturing Plants
- Schools and Universities
- Local, County and State Facilities
- Water Departments
- Parks and Recreation
- Fire Departments
- Police Departments
- Amusement Parks
- Assisted Living Facilities
- Transportation Departments
- Beverage Distributors and Bottlers
- DOT
- Distribution Centers
- Military Bases

What Areas of Your Facility Can be Made Safer by Applying a Coating?

TRED SAFE HD is the perfect option for this hardwood floor manufacturing plant. When cutting the hardwood, the dust creates a slippery film on the concrete floor. In addition to coating the primary walkway, mulitple color options provide the opportunity to keep the non-slip surface consistent when marking safe and/or restricted areas surrounding the pathway.

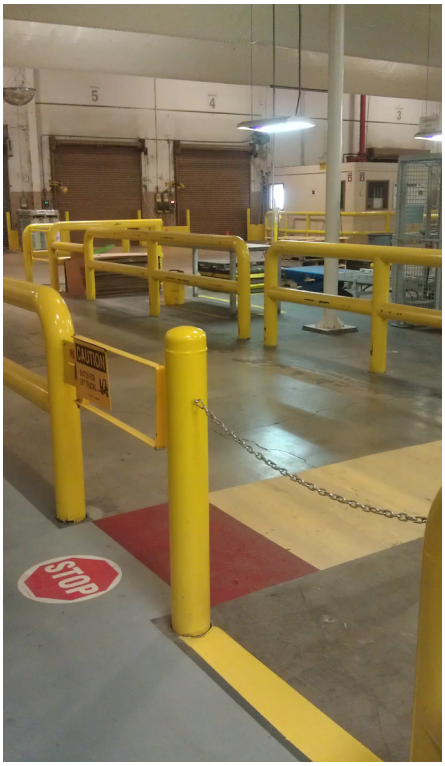
TRED SAFE HD is a tough, abrasive, anti-slip one-part coating that is ideal for a variety of interior or exterior applications. It provides a textured, flat finish that will substantially reduce the threat of slippage, resulting in a far safer workplace.

It is perfect for use on walkways, concrete steps, wood, locker room floors, ramps, boat docks and concrete floors.

NOTE: TRED SAFE HD is not for use in areas where it will be underwater or garage floors or other areas subject to wheeled vehicle traffic.







TRED SAFE HD can be recoated immediately. It can be open to light duty in 1-2 days and normal use in 3-5 days.

ANTI-SKID PRODUCTS

Why Does Your Facility Need Anti-Skid Products?

- Employee Safety
- Slip and Fall Prevention
- Protection from Surface Damage



These steps are standard on large pieces of equipment and are used for quick access to areas that need attention during use. FIRM GRIP makes them safe.



Equipment steps before coating is applied.

COATINGS

Why Does Your Facility Need to Use Coating Products?

- Employee Safety
- Slip and Fall Prevention
- Protection From Surface Damage
- Safety Zone Designation



Firm Grip applied to a popular walking trail

What Areas of Your Facility Can Be Made Safer by Applying a Coating?

Walkways, Sidewalks and Stairs–
These areas are frequently used not only by employees, but guests use them as well. Coatings can provide a safe surface for all.

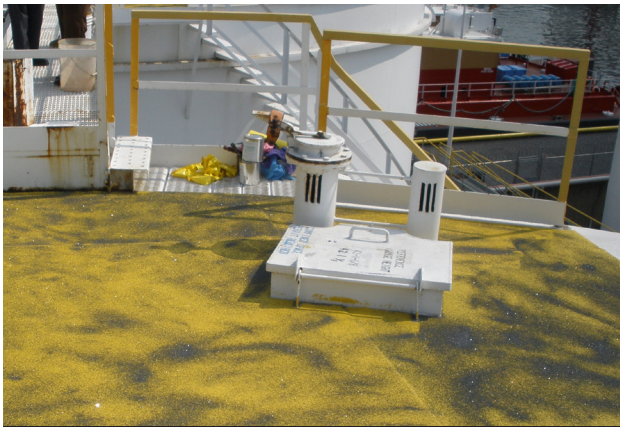
Warehouse, Ramps and Loading Docks–
Because these areas are heavily used by pedestrians, as well as forklifts and other moving equipment, non-skid coatings provide extra safety allowing the equipment to stop quickly and accurately.

Catwalks and Tanks–
Many facilities have catwalks for easy access to tanks and equipment. Others require maintenance on the top of a storage or mixing tank. While there are safety precautions and railings, adding a non-slip coating adds an extra layer of safety to prevent the fall from occurring.

Locker Rooms and Restrooms–
Highly used showers and surrounding areas produce a constantly slick surface. Applying a non-slip coating to these areas will prevent slips and falls.



Loading dock before coating is applied



Top of a petroleum storage tank

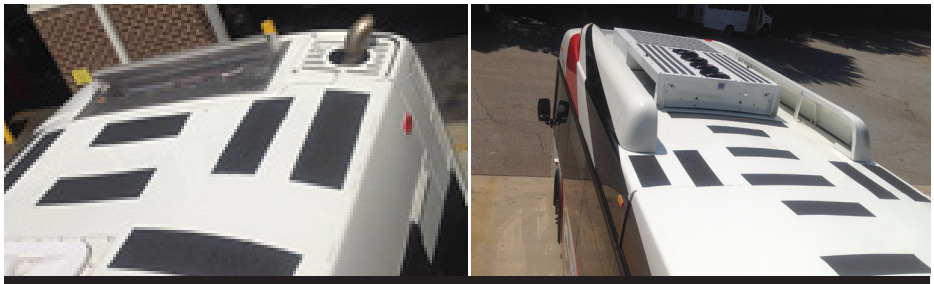
FACT: According to the National Safety Council, stairway falls rank as the second leading cause of accidental workplace injury. At least 20% are caused by unsafe conditions. These include slippery surfaces, damaged or defective steps or walkways.

ANTI-SKID TAPE: #4705 (Available in both 2” widths and 6” widths in 60’ rolls) Use this on any concrete, or metal surface where potential falls and slips may be a cause of concern.

ANTI-SKID TAPE is very durable, and highly resistant to heavy traffic, water and grease. Simply cut to the desired length, peel off the paper backing and apply. ANTI-SKID TAPE conforms to irregular surfaces and can be used indoors or outdoors.



ANTI-SKID TAPE 2” & 6”



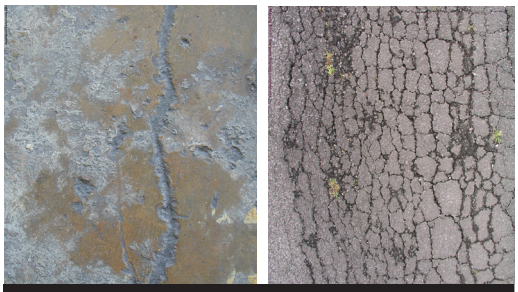
Use ANTI-SKID TAPE for traction on the top of buses

This university maintains their own transit system vehicles. When the air conditioning unit needs maintenance, it is necessary for technicians to walk on the top of the vehicles to access the unit. ANTI-SKID TAPE provides a safe, non-slip surface.

What are Patching and Repair Products?

- Compounds used to fill voids, large gaps or penetrations in floors or other surfaces
- High solid, chemical resistant formulas designed to return a surface to its original state
- Patches and epoxies used to repair almost anything made of any material

Why Does a Facility Need Patching and Repair Products?



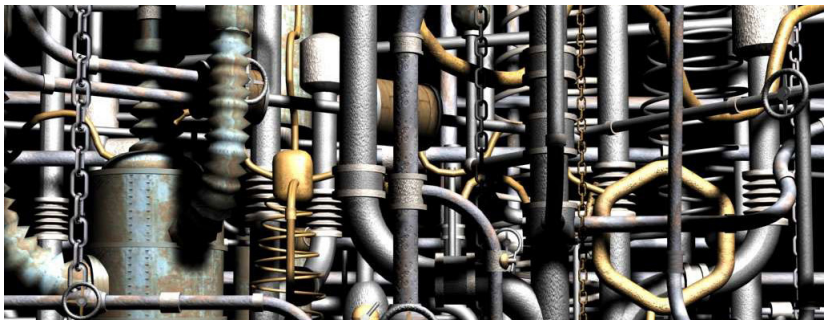
Cracked concrete & asphalt

Over time, walkways, floors, stairways, parking lots and drives can develop imperfections. Depending on the area and the size, they can create a hazard at your facility for your employees and visitors.

High traffic and heavy equipment eventually leads to cracking, pitting and, in some cases, damage to concrete and asphalt surfaces. The use of a patching product can not only extend the life of a surface, it also enables a facility to avoid expensive resurfacing or reconstruction.



DURA BOND



Equipment, furniture and other materials are in use constantly throughout each day. It stands to reason, that even the top quality pieces will wear and possibly break with such high use.

Every building has plumbing and most manufacturing plants also have pipes with various substances flowing through them. When any of these areas develop a leak, the substance can create a hazard in that isolated area.

Why Does a Facility Need Patching and Repair Products?



TRUE BOND PATCH applied to an airport runway

During a lightning storm, it is not unusual for it to strike this airplane runway, leaving divots in its aftermath. Our customer uses TRUE BOND PATCH for a quick repair.



EASY PATCH being applied in a mechanical room at a manufacturing plant

Suddenly faced with a leak in a pipe, this customer applied EASY PATCH for a quick repair.



DURA BOND applied to a metal stair railing

This school has railings on its external staircases. After many years of exposure to rain and snow, the railings have weakened. Since they were only having an issue with one slat, they opted to repair it rather than replace the entire railing. DURA BOND created a hard, permanent fix, keeping the railing in place and safe for students.



SURE PATCH being applied to a warehouse floor

After a heavy load tumbled when being moved by the forklift, this customer discovered an area of the concrete floor had been cracked leaving a hole. Being a high traffic area, immediate repair was needed. Pro Chem's SURE PATCH was applied, eliminating a future hazard to foot and forklift traffic.

PERMA-KOTE #2326

Two-Component Water-Based Epoxy Coating

Features:

- Water-based epoxy coating
- Excellent chemical resistance and abrasion resistance
- Withstands exposure to common solvents and chemicals
- Available in clear and light gray
- Clear Kit: 2-Gallon (2326202), 5-Gallon (2326002)
- Light Gray Kit: 2-Gallon (2326102), 5-Gallon (2326902)



Description:

PERMA-KOTE is a two-component, water-based epoxy coating that exhibits excellent characteristics that rival solvent-based products. Designed for applications where superb chemical resistance, abrasion resistance, and substrate penetration are needed, PERMA-KOTE can withstand exposure to many common solvents and chemicals. Recommended for priming or coating concrete, wood or masonry.

Applications:

- Concrete
- Wood
- Masonry

Product Characteristics:

2 Part Kit	**Part A & B**
Appearance & Odor:	Low viscosity liquid – amber clear
Boiling Point or Range:	212°F
Melting/Freezing Point:	N/A
Vapor Pressure:	N/A
Solubility in Water:	Emulsifiable
Flash Point:	200 +F
Specific Gravity (H2O = 1):	1.1
pH:	N/A
Storage:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.
Transport Information:	
UN Number:	Not regulated.
Proper Shipping Name:	Not regulated.
Class:	Not regulated.
Packing Group:	Not regulated.

Directions:

Request and read the technical data sheet before use. Store material at normal room temperature. Properly prepare the substrate. Remove all contaminants including curing compounds. Have floor clean and dry. Follow any application recommendations for temperature or humidity requirements as stated on the technical data sheet. Mix Part A and Part B together vigorously until streak free (be certain that the mix ratio is correct). Apply material between 55°– 90°F with relative humidity below 75%. When applying multiple coats or topcoating, check the preceding coats for contamination/epoxy blushes before recoating. Allow more time to cure when humidity is high. Pot life is temperature dependent (higher temperatures will reduce the pot life). Do not apply after gelation starts.

Cure Schedule: (70°F)

Pot life – 1 gallon volume ……..…….. 1.0 – 1.5 hours
Tack free (dry to touch) …… 5-8 hours
Recoat or topcoat ....…… 7-10 hours
Light Foot Traffic...……..……....16-24 hours
Full cure (heavy traffic) ...…….... 2-7 days

Primer: None required.
Topcoat: Optional – Many products are suitable as topcoats including multiple coats of this product. For added chemical resistance, color stability or UV stability, topcoat with a suitable aliphatic urethane.

Pictograms:

Part A:



Part B:



Signal Word:

Part A: DANGER. **Part B:** WARNING.

Personal Protective Equipment Required:



DOT Placard:

Not available.

VOC Compliancy:

Not available.

SOLIDS BY WEIGHT:
Mixed = 53% (colors); 45% (clear); (+, - 2%)
SOLIDS BY VOLUME:
Mixed = 41% (colors); 36% (clear); (+, - 2%)
VOLATILE ORGANIC CONTENT:
Colors = 1.01 pounds per gallon (mixed) (regulatory VOC = 175g/l)
Clear = 1.0 pounds per gallon (mixed) (regulatory VOC = 230g/l)
RECOMMENDED FILM THICKNESS:
5 -7 mils per coat wet thickness (yields 2-3 mils dry)
COVERAGE PER GALLON:
229 to 320 square feet @ 5-7 mils wet thickness
PACKAGING INFORMATION
2 gallon and 5 gallon kits (volume approx.)
MIX RATIO:
Colors= 8.55# part A (.80 gallons, approximate) to 1.75# part B (.20 gallons, approximate)
Clear= 6.55# part A (.80 gallons, approximate) to 1.90# part B (.20 gallons, approximate)
SHELF LIFE:
1 year in unopened containers
FINISH CHARACTERISTICS:
Satin gloss (40-80 at 60 degrees @ glossmeter)
ABRASION RESISTANCE:
Taber adrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 54 mg loss
IMPACT RESISTANCE:
Gardner Impact, direct = 50 in.lb. (passed)
FLEXIBILITY:
No cracks on a 1/8" mandrel
ADHESION:
425 psi @ elcometer (concrete failure, no delamination)
VISCOSITY:
Mixed = 900-1200 cps (colors); 400-900 cps (clear) (typical)
DOT CLASSIFICATIONS:
Not regulated

Chemical Resistance:

REAGENT	RATING
acetic acid 5%	B
xylene	B
mek	A
gasoline	B
10% sodium hydroxide	C
50% sodium hydroxide	B
10% sulfuric	B
10% hrdochloric acid	B
20% nitric acid	A
ethylene glycol	C

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion.

NOTE: extensive chemical resistance information is available through your sales representative.

Mixing And Application Instructions

1) Product Storage: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 60 and 90 degree F. Keep from freezing.

2) Surface Preparation: Surface preparation will vary according to the type of complete system to be applied. For a one or two coat thin build system (3-10 mils dry) we recommend either mechanical scarification or acid etching until a suitable profile is achieved. For a complete system build higher than 10 mils dry, we recommend a fine brush blast (shot blast). All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete has an appropriate vapor barrier. This can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate does not show signs of eventual hydrostatic pressure problems that may later cause disbanding. However, this product can be applied to a damp floor as long as there are not standing puddles.

3) Product Mixing: This product comes pre-packaged by weight. Kits should be mixed in their entirety. If partial kits are to be used, refer to the front of this technical data for proper weight mix ratios. After the two parts are combined, mixes well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product is an emulsion product and should be mixed well before using.

4) Product Application: The mixed material can be applied by brush or roller. Maintain temperatures within the recommended ranges during the application and curing process. Apply material with relative humidity within the parameters shown on the technical data. When the end of the pot life has been reached, you will find that the material becomes hard to apply and will actually tend to roll back up onto the roller. Do not try to continue application when the coating has reached this step. Applications made at different times with differing environmental conditions, may show slight variations in gloss.

5) Recoat Or Topcoating: If you opt to recoat or topcoat this product, you must first be sure that all of the solvents and water have evaporated from the coating during the curing process. The information on the front side are reliable guidelines to follow. However, it is best to test the coating before recoating or topcoating. This can be done by pressing on the coating with your thumb to verify that no fingerprint impression is left. If no impression is created, then the recoat or topcoat can be started. Always remember that colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check the coating to insure no epoxy blushes were developed (a whitish, greasy film or deglossing). If a blush is present, it must be removed prior to topcoating or recoating. A standard type detergent cleaner can be used to remove any blush. Many epoxy overlays and coatings as well as urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

6) Cleanup: Use PM solvent

7) Floor Cleaning: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

8) Restrictions: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry

Limitations:
Color or gloss may be affected by humidity, low temperatures, chemical exposure or sodium vapor lighting.
Product will yellow in the presence of UV light
For best results use a 1/4" or 3/8" nap roller.
Slab on grade requires moisture barrier
Substrate temperature must be 5°F above dew point.
All new concrete must be cured for at least 30 days
Product color will vary from batch to batch. Use only product from the same batch for an entire job.
Improper mixing or too thick of an application may result in product failure
Light or bright colors (white, safety colors etc.) may require multiple coats or a topcoat to achieve a satisfactory hide, depending on the substrate.
Physical properties listed on this technical data sheet are typical values and not specifications.
Read the SDS for our warranty, limitations (to/of) our liability and all components prior to using.
See reverse side for application instructions.

DURA SEAL #2489

Waterborne Two-Part Epoxy Concrete Coating

Features:

- Dries to a high gloss that is easy to clean
- Provides a tough coating that protects against dust, dirt, water, acid and alkali cleaners, alcohol, Skydrol and brake fluid
- Minimum floor prep required, can be cleaned with soap and water
- Low VOC, mild odor
- Superior resistance to abrasion, marring, scuffing, foot traffic, forklifts and chemicals
- 46% solids



Description:

DURA SEAL is a waterborne, premeasured, two-part pigmented epoxy coating formulated to provide a tough concrete seal that protects against chemical penetration (including brake fluid) and the physical deterioration of existing concrete. Dries in 12-24 hours for traffic, with maximum hardness in 5-7 days (dependent upon temperature - higher temperatures will cause faster dry time). Regular maintenance and cleanup is simple by using any Pro Chem water-based degreaser. Its low odor makes it an ideal product to use in facilities such as hospitals, schools and nursing homes where the presence of solvent odors and/or flammability problems would normally prohibit the application of a sealer. May be applied to new concrete.

Applications:

- Fleet Operations
- Hospitals
- Bus Garages
- Factories
- Schools
- Correctional Facilities
- Industrial Plants
- Commercial Buildings
- Municipalities

Product Properties:

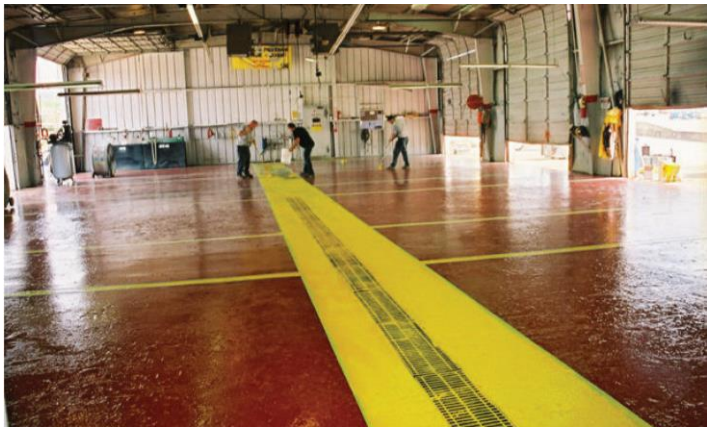
Coverage Rate:	6 mil thickness recommended
Colors:	1st Coat-225 sq. ft/gal
Additional Coats:	250 sq. ft/gal
Clear:	1st Coat: 300 sq. ft/gal
Additional Coats:	400 sq. ft/gal
Pot Life:	90 minutes
Open to Light Traffic:	12-24 hrs
Maximum hardness:	5-7 days

NOTE: DO NOT apply if floor temperature is below 60°F or over 90°F or if relative humidity is above 80% or if air temperature is below 60°F within 24 hours of application. Not recommended for outside use. DURA SEAL does not contain UV protectant and may turn chalky or cloudy.

Before:



After:



Directions:
Follow surface preparation instructions to ensure the floor is prepared to accept coating. Mix all of Part B (resin) into Part A (pigmented hardener) using an electric drill mounted with a “Jiffy” type mixer. Mix until a uniform color is obtained. Avoid air entrapment. Let sit 3-5 minutes after stirring to dissipate air bubbles. Pot life after mixing is 90 minutes. DO NOT USE BEYOND THIS TIME FRAME EVEN IF PRODUCT APPEARS NORMAL. Apply mixed product in thin, even coats with a short nap 3/8” or no nap paint roller from a clean roller pan. Do not pour directly onto floor. There is no need to work this finish into the surface since the superior penetrating qualities of the product will perform this function. Discard roller cover when through. All remaining application equipment may be cleaned with soap and water before pot life expires. Discard all unused material after 90 minutes. No noticeable change will be noted but film characteristics will be unsatisfactory.
Two coats are recommended (wait 3-6 hours between coats).
*New concrete surfaces should age at least 30 days before being coated.

Pictograms:

A.



B.



Signal Word:
A.& B. Warning.

Personal Protective Equipment Required:
A&B





Product Characteristics:

Appearance:	A: Various colors –light gray is stock B: Clear, liquid
Odor:	A: Alcohol B: Nearly odorless
Boiling Point:	A: >80°C (>176°F) B: Undetermined
Vapor Pressure:	A: 23 hPa (17 mm Hg) B: Not determined
Water Solubility:	A: & B: Not miscible or difficult to mix
Vapor Density:	A: & B: Heavier than air
Flash Point:	A: 54°C (129°F) B: Not applicable
VOC:	11.8 % <250 g/l when blended with part B
Viscosity:	A: & B: Not determined
Storage:	Keep container tightly sealed. Store in a cool, dry place.
Transport Information:	
Proper Shipping Name:	A: Paint B: Paint
UN Number:	A: & B: UN1263
Class:	A: 3 Flammable liquids B: Not regulated
Packing Group:	A: III B: III

DOT Placard:

A:



B: Not regulated

DURA BOND #1475

Hand Mixable Epoxy Putty

Features:

- Can be used under water to plug and seal anything that leaks
- Cures in minutes
- Not affected by diesel fuel
- Non-flammable and releases no noxious fumes



Description:

DURA BOND is a hand-mixable, epoxy adhesive-sealant that cures in minutes to permanently repair almost anything made of metal, concrete, wood, ceramic, glass and many plastics. It consists of two parts, a base and a contrasting colored curing agent. Once the base and curing agent are thoroughly blended, the putty-like mixture will appear uniform in color and will harden like steel after 20 minutes. After just one hour it is completely cured and can be sanded, filed, painted and even drilled and tapped as though it were metal. Exhibits resistance to abrasion and a variety of chemicals, excellent adhesion to wet and dry surfaces and good electrical insulating properties. Contains no solvents, is non-toxic and is easily readied for application without any mess. Unlike liquid epoxies, it will not drip, sag or shrink. DURA BOND can be used to patch holes and cracks.

Applications:

- Plumbing Repairs
- Auto Repairs
- Electrical
- Underwater Repair
- Custom-Formed Gaskets
- Industrial Applications

Product Characteristics:

Appearance:	White, beige solid
Odor:	Sulfurous, pungent
Flash Point:	Closed cup: >93.3°C (>199.9°F) [Setaflash.] [Product does not sustain combustion.]
Flammability (solid, gas):	Flammable in the presence of the following materials or conditions: open flames, sparks and static discharge.
Decomp Temp:	>200°C (>392°F)
Solubility:	Not available
Relative Density:	1.95
Viscosity:	Not available
Storage:	Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use.

Transport Information:	
UN Number:	Not regulated
Proper Shipping Name:	Not available
Class:	Not available
Packing Group:	Not available

DOT Placard:
Not regulated.

Directions:

DURA BOND adheres to most surfaces. Best results are achieved if area is first roughened by sandpaper or filed to clean and prepare surface. Break off required portion of DURA BOND. Twist and knead until uniform color is achieved – no streaks. Apply at once to surface. It has a 2-minute work life @ 75°F. Remove excess before it hardens. A smooth finish can be obtained by rubbing with wet finger or damp cloth before hardening begins.

Note: Optimum mixing temperature is between >40°F and <100°F. Higher temperatures cause faster curing times.

Not recommended for use on polyethylene or polypropylene.

Pictograms:



Signal Word:
WARNING

Personal Protective Equipment Required:



TRED SAFE HD #2871

Heavy-Duty Epoxy Nonskid Coating

Features:

- Excellent slip resistance for wet and dry conditions
- Can be applied to concrete and metal substrates
- Resists abrasion, impact, water, salt and mild chemicals
- More durable than one-component, antislip coatings
- Low VOC



Description:

TRED SAFE HD is a heavy-duty, two-component, high build, nonskid epoxy coating that is specifically formulated to provide a durable coating. It can be applied indoors or outdoors. Its heavy-duty grit allows for nonslip surfaces even in the slipperiest of conditions.

Applications:

- Warehouses
- Loading Docks
- Factories
- Ramps
- Parking Decks
- Steps
- Wood

Product Characteristics:

Appearance:	A: Light gray B: Clear
Odor:	A&B: Mild solvent odor.
Boiling Point:	A: 243°F B: >245°F
Explosive Limits:	A: LEL: 1.5 UEL: 13.74 B: Not available
Weight per Gallon:	A: 16.20 +/- 1.0 B: 8.25 +/- 0.3
Vapor Pressure:	A: 11.8 mm Hg at 68°F B: Not available.
Flash Point:	A: 88°F B: >260°F
Vapor Density:	A: Heavier than air B: Not available
Evaporation Rate:	A: Slower than ether B: Not applicable
Percent Volatile:	A: 8 (vol) B: 0
VOC (mixed)(g/l):	A & B: 74
Storage:	Store in cool/well-ventilated place. Store locked up.

Transport Information (DOT):	
Proper Shipping Name:	A & B: Paint related material
UN Number:	A: UN1263 B: UN3066
Class:	A: 3 B: 8
Packing Group:	A & B: III

DOT Placard:

A:



B:



Directions:

Surface Prep: Read Surface Preparation thoroughly prior to beginning project. Also, review all warning labels and follow all precautions before opening package.

Steel: Sandblast to a "Commercial (SSPC-SP6-63) or "Near White" (SSPC-SP10-63) blast finish.

Concrete: Sandblast, Shot Blast or Diamond Grind.

Mixing Directions: Prepare by mixing Part A to Part B with an explosion-proof, slow-speed, power drill with a Jiffy Mixer. No induction time is necessary. Part A and Part B must be agitated well prior to mixing. Thinning is not recommended. Material should be kept a 75ºF prior to using.

*TRED SAFE HD must be used with Phenolic roller.

Product Properties:

Mix Ratio:	4 parts A to 1 part B
Pot Life:	1 hour at 75°F
Practical Coverage:	30-50 sq ft/gal
Recommended Film Per Coat:	Wet: 30-50 mils Dry: 28-46 mils
Cleanup:	Toluene or methyl ethyl ketone
Dry Time to Recoat:	Not normally necessary
Open To Light Duty:	1-2 days
Open To Normal Use:	3-5 days

Pictograms:

A:



B:



Signal Word:

A & B: DANGER

Personal Protective Equipment Required:

A & B:



5/2018

EPOXY CRACK FILLER & PATCHING COMPOUND #2098601

Epoxy Crack Filler

Features:

- Two component, 100% solids epoxy crack filler
- Can be topcoated immediately after application
- Applied by marginal trowel, putty knife or other suitable equipment
- Vertical/horizontal applications



Description:

EPOXY CRACK FILLER & PATCHING COMPOUND is a two component, 100% solids epoxy crack filler designed for shallow repair on either vertical or horizontal surfaces. This product is easy to mix and use and has a non-critical mix ratio. Additionally, because the product is a 100% solids formulation, it can be applied thicker on horizontal surfaces when required. Recommended for repairing cracks and defects in concrete or masonry.

Applications:

- Concrete
- Masonry

Product Characteristics:

	Part A	Part B
Appearance:	Viscous paste	Viscous paste
Odor:	Negligible odor	Amine odor
Boiling Point/Range:	200 to 401°F	279 to 401°F
Vapor Pressure:	Not available	Not available
Water Solubility:	Negligible	Negligible
Specific Gravity (H2O = 1):	1.6	1.5
pH:	Not available	Not available
Storage:	Store in a cool dry place. Seal all partially used containers. Wash with soap and water before eating, drinking, smoking or using toilet facilities. Mixed materials contain the hazards of all the components, therefore, read the SDS's of all the components prior to using material. Properly label all containers.	
Transport Information:		
UN Number:	Not Regulated	Not Regulated
Proper Shipping Name:	Not Regulated	Not Regulated
Class:	Not Regulated	Not Regulated
Packing Group:	Not Regulated	Not Regulated

Directions:

Properly prepare the substrate. Remove all contaminants including curing compounds. Make sure the surface is dry. Store at room temperature before using. Apply material with temperatures between 60-90°F. Mix the material at the correct mix ratio using a putty knife until streak free and uniform in appearance. Make sure all loose concrete is removed prior to filling any cracks. Apply the material with a putty knife or other suitable application tool. Most coatings can be applied directly over the uncured crack filler provided the repairs are shallow and narrow. For larger repairs, allow the material to fully cure before applying a coating.

Cure Schedule: (70°)
Pot life – 2 gallon volume ……..…….. 1-3 hours
Tack free (dry to touch) ……..……..……. 5-10 hours
Recoat or topcoat…….……..…… immediately after application
Light foot traffic ...…..……..……10-24 hours
Full cure (heavy traffic) ...……..…..…..... 2-7 days
Application Temperature: 60-90°F.
Primer: None necessary.
Topcoat: Optional: This product can be overcoated with many suitable epoxy and urethane products.

Pictograms:



DOT Placard:

Not available.

VOC Compliancy:

Not available.

Signal Word:

WARNING

Personal Protective Equipment Required:



SOLIDS BY WEIGHT:
100%
SOLIDS BY VOLUME:
100%
VOLATILE ORGANIC CONTENT:
Less than 11 g/l
COLORS AVAILABLE:
Gray (when mixed)
RECOMMENDED FILM THICKNESS:
1/8" cracks or thin build repairs.
COVERAGE PER GALLON:
0.13 cubic feet or 1,228 lineal feet @ 1/8" x 1/8"
MIX RATIO:
1 part A to 1 part B by volume
ABRASION RESISTANCE:
Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 36 mg loss
FLEXURAL STRENGTH:
7,500 psi @ ASTM D790
COMPRESSIVE STRENGTH:
8,710 psi @ ASTM D695
ADHESION:
350 psi @ elcometer (concrete failure, no delamination)
VISCOSITY:
Mixed = > 3,100,000 cps (typical)
DOT CLASSIFICATIONS:
Part A "not regulated"
Part B "not regulated"
TENSILE STRENGTH:
6,256 psi @ ASTM D638
ULTIMATE ELONGATION:
2.4%
GARDNER VARIABLE IMPACTOR:
50 inch pounds direct – passed
HARDNESS:
Shore D = 65
HEAT DEFLECTION TEMP.:
59°C (138°F)

Chemical Resistance:

REAGENT	RATING
butanol	C
xylene	B
1,1,1 trichloroethane	A
MEK	A
methanol	A
ethyl alcohol	A
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	A

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion.
NOTE: Extensive chemical resistance information is available through your sales representative.

Mixing and Application Instructions:

Product Storage: Store product at normal room temperature before using. Continuous storage should be between 60 and 90°F. Low temperatures or temperature fluctuations may cause product crystallization.

Surface Preparation: All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet then the substrate is dry enough to start repair work. This product is intended for hairline cracks and other fractures up to a 1/8 inch in width. Remove all unsound concrete from within the crack to be repaired and thoroughly vacuum all debris and dust from within the crack opening.

Product Mixing: This product has a mix ratio of 1 part A to 1 part B by volume. To mix, simply measure out equal volumes of the material and mix them together thoroughly with slow speed mixing equipment such as a jiffy mixer, putty knife or spatula until the material is thoroughly mixed and uniform in color. Mix only an amount of material that can be used in the allotted pot life period. Improper or insufficient mixing may result in product failure.

Priming: No priming is necessary.

Product Application: The mixed material can be applied by marginal trowel, putty knife or any other suitable equipment.

Recoat or Topcoating: When repairing cracks that are less than 1/8" thickness, many epoxies can be placed directly over the applied crack filler before it is cured. Alternatively, it is also acceptable to allow the material to cure before installing the coating. If excessive amounts are spread well beyond the crack repair or in an areas where surface repairs have been implemented, it is best to check the cured areas for any possible amine blush (a whitish, greasy film or de-glossing) prior to coating over this material. If a blush is present, it can be removed by any standard type detergent cleaner prior to top coating or recoating. Many epoxy coatings and urethanes are compatible for use over this product as well as multiple coats of this product.

Cleanup: Use xylol.

Floor Cleaning: Caution! Some cleaners may affect the color of the fast gel installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

Restrictions: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

Limitations:

*Color stability may be affected by environmental conditions such as high humidity, chemical exposure, or exposure to certain types of lighting such as sodium vapor lights.
*Colors may vary from batch to batch.
*This product is not UV color stable and may discolor when exposed to UV light sources.
*Substrate temperature must be 5°F above dew point.
*All new concrete must be cured for at least 30 days prior to application.
*Many epoxy products can be placed directly over the uncured epoxy crack filler immediately after the material is used provided that the cracks are small. If coating over repairs that are larger, it may be advisable to allow the material to become tack free prior to application of subsequent coatings.
*See reverse side for application instructions.
*Physical properties are typical values and not specifications.
*See reverse side for limitations of our liability and warranty.

FIRM GRIP II – EPOXY #244821/244831

Two-Part High Build Epoxy Coating

Features:

- For use on a high build colorfast impact resistant floor
- Suitable in many chemical exposure environments
- 100%% (+/- 1%) solids epoxy coating
- Available in black (#244821) and yellow (#244831)



Description:

FIRM GRIP II is a two-part component 100% (+/- 1%) solids epoxy colored coating designed for applications where a high build colorfast impact resistant floor is needed. Recommended for a high build topcoat or basecoat on concrete or masonry. Product is suitable in many chemical exposure environments.

Applications:

- Concrete
- Steel
- Masonry
- Wood
- Ramps
- Stairs
- Docks
- Walkways

Product Characteristics:

	Part A	Part B
Appearance & Odor:	Low viscosity liquid in varying colors.	Amber clear liquid with amine odor.
Specific Gravity (H2O = 1):	1.5	1.0
Vapor Pressure:	N/A	N/A
Solubility (water):	Negligible.	Negligible.
pH:	N/A	N/A
Boiling Point/Range:	200 to 279°F	401 to 560°F
Storage:	Store locked up.	

Transport Information:		
UN Proper Shipping Name:	Not regulated	CORROSIVE LIQUID N.O.S. (CONTAINS ISOPHORONE DIAMINE, NONYL PHENOL),
UN Number:	Not regulated	UN1760
Class:	Not regulated	8
Packing Group:	Not regulated	PG III

Chemical Resistance:

REAGENT	RATING
xylene	C
trichloroethylene	B
methanol	A
ethyl alcohol	B
skydrol	B
10% sodium hydroxide	E
50% sodium hydroxide	D
10% sulfuric acid	C
70% sulfuric acid	A
10% HC1 (aq)	C
5% acetic acid	B

Rating key: A - not recommended, B - 2 hour term splash spill, C - 8 hour term splash spill, D - 72 hour immersion, E - long term immersion.

Directions:

Request and read the technical data sheet before use. Properly prepare the substrate. Remove all contaminants including curing compounds. Make sure the floor surface is dry. Store material at room temperature before using. Apply an appropriate primer. Apply material between 60-90°F-lower temperatures will require more time for material to cure. Check all coats for epoxy blushes. Mix the Part A and Part B together thoroughly (make sure the mix ratio is correct). Apply the material by brush, or roller. Use an air release roller tool to remove any entrapped air. Apply material with the R.H. below 85%.
Do not use in battery areas.

Shelf Life: 1 year in unopened containers (epoxy)

Application Temperature: 60-90°F with relative humidity below 85%

Mix Ratio: 12 pounds (1 gallon) Part A to 4.15 pounds (.50 gallons) Part B (volumes approx.) (standard colors)

Recommended Film Thickness: 12-30 mils

Coverage Per Gallon: 53-130 square feet per gallon @ 12-30 mils

Cure Schedule:
Pot life – 1 1/2 gallon volume ……..…... 30-50 minutes
tack free (dry to touch) ……..…..…….. 5-8 hours
recoat or topcoat ....…….…… 8-12 hours
light foot traffic ...……..…..…12-14 hours
full cure (heavy traffic) ...……..……...2-7 days

Primer: Recommended

Topcoat: Optional – aliphatic urethanes can be used for increased chemical resistance or increased UV stability.

FIRM GRIP II – EPOXY #244821/244831

Continued

Solids By Weight:
100% (+/- 1%)
Solids By Volume:
100% (+/- 1%)
Volatile Organic Content:
Less than 2 g/l
Finish Characteristics:
Gloss (70-95 at 60 degrees @ glossmeter)
Abrasion Resistance:
Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles = 32 mg loss
Flexural Strength:
5,400 psi @ ASTM D790
Compressive Strength:
9,100 psi @ ASTM D695 – 1/2 "X 1/2" bars
Adhesion:
450 psi @ elcometer (concrete failure, no delamination)
Viscosity:
Mixed = 1300-2300 cps (typical, most colors)
Tensile Strength:
4,800 psi @ ASTM D638
Ultimate Elongation:
3.1%
Gardner Variable Impactor:
50 inch pounds direct – passed
Hardness:
Shore D = 80

Limitations:

Color stability or gloss may be affected by environmental conditions such as high humidity, low temperatures, chemical exposure or exposure to certain types of lighting such as sodium vapor lights.
Colors may vary from batch to batch. Therefore, use only product from the same batch for an entire job.
This product is not UV color stable and may discolor when exposed to UV lighting. Otherwise, the color stability of this product is good. Therefore, a topcoat is optional and dependent on the environment.
Light or bright colors may require a suitable primer or topcoat to achieve a satisfactory hide.
Substrate temperature must be 5°F above dew point.
All new concrete must be cured for at least 30 days prior to application.
Apply a suitable primer before using this product as a coating.
See reverse side for application instructions.
Physical properties are typical values and not specifications.

Pictograms:

Part A:



Part B:



Signal Word:

Part A:
WARNING

Part B:
DANGER

Personal Protective Equipment Required:



Mixing & Application Instructions

1) Product Storage: Store product at normal room temperature. Continuous storage should be between 60 and 90°F. Low temperatures or temperature fluctuations may cause product crystallization.

2) Surface Preparation: The most suitable surface preparation would be a fine brush blast (shot blast) to remove all laitance and provide a suitable profile. All dirt, foreign contaminants, oil and laitance must be removed to assure a trouble free bond to the substrate. A test should be made to determine that the concrete is dry; this can be done by placing a 4'X4' plastic sheet on the substrate and taping down the edges. If after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating.

3) Product Mixing: This product has a mix ratio of 12# part A to 4.15# part B or two parts A to one part B by volume for standard colors. Standard packages are in pre-measured kits and should be mixed as supplied in the kit. We highly recommend that the kits not be broken down unless suitable weighing equipment is available. After the two parts are combined, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. After mixing, transfer the mixed material to another pail (the transfer pail) and again remix. The material in the transfer pail is now ready to be applied on the primed substrate. Improper mixing may result in product failure.

4) Priming: A suitable primer should be used before applying this product. See the front side of this technical data for primer information. If a primer is not used, more porous substrates may cause outgassing and possible surface defects.

5) Product Application: The mixed material can be applied by brush or roller. However, the material can also be applied by a suitable serrated squeegee and then back rolled as long as the appropriate thickness recommendations are maintained. Maintain temperatures and relative humidity within the recommended ranges during the application and curing process. If concrete conditions or over aggressive mixing causes air entrapment, then an air release roller tool should be used prior to the coating tacking off to remove the air entrapped in the coating.

6) Recoat Or Topcoating: If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. However, all previous coats should be deglossed to insure a trouble free bond prior to application of recoats or topcoats. Colder temperatures will require more cure time for the product before recoating or topcoating can commence. Before recoating or topcoating, check for epoxy blushes (a whitish, greasy film or deglossing). If a blush is present, it can be removed by any standard detergent cleaner prior to topcoating or recoating. Many epoxy coatings and urethanes as well as multiple coats of this product are compatible for use as a topcoat.

7) Cleanup: Use xylol.

8) Floor Cleaning: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

9) Restrictions: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

DOT Placard:
Not available.

VOC Compliancy:
Not available.

FIRM GRIP II – AGGREGATE #2128901

Black Silicon Carbide Grit

Features:

- For use on a high build colorfast impact resistant floor
- Suitable in many chemical exposure environments
- Grit Size #8 on a scale of 8-240 with #8 being the most coarse
- Black Silicon Carbide contains some free silicon (Si) and carbon (C)



Description:

FIRM GRIP II – AGGREGATE, Black Silicon Carbide (SiC) is an extremely hard (Mohs 9.1 / 2550 Knoop) man made mineral that possesses high thermal conductivity and high strength at elevated temperatures (at 1000°C, SiC is 7.5 times stronger than Al_2O_3). SiC has a modulus of elasticity of 410 GPa, with no decrease in strength up to 1600°C, and it does not melt at normal pressures but instead dissociates at 2600°C.

Applications:

- Vitrified Grinding Wheels
- Resinoid Grinding Wheels
- Friction
- Polishing
- Blasting
- Non-Slip
- Compounds
- Wiresawing Silicon
- Lapping
- Quartz

Product Characteristics:

Form:	Granulate
Color:	Black
Odor:	Odorless
Decomposition Temperature:	4712°F / 2600°C (Sublimation)
Density at 20°C:	3,20 g/cm³
Solubility in / Miscibility with Water:	Insoluble
Danger of Explosion:	Product does not present an explosion hazard.
Boiling Point/Range:	Undetermined
pH:	Neutral
Flammability(solid/gas):	Product is not flammable.
Storage:	Store in cool, dry conditions in well-sealed receptacles. Store receptacle in a well-ventilated area. Protect from humidity and water. This product is hygroscopic.
Transport Information:	
UN Proper Shipping Name:	Not regulated.
UN Number:	Not regulated.
Class:	Not regulated.
Packing Group:	Not regulated.

Description:

For use with FIRM GRIP II EPOXY, broadcast over area after applying.

Pictograms:



Signal Word:

DANGER.

Personal Protective Equipment Required:



Typical Chemical Analysis:

SiC	97.7%
SiO2	0.7%
Si	0.8%
Fe	0.2%
Al	0.3%
C	0.3%

DOT Placard:

Not available.

VOC Compliancy:

Not available.

SURE PATCH – NEW & IMPROVED #2095701/801

Concrete Crack Repair

Features:

- High strength
- 3 Component, 100% solid epoxy mortar
- Excellent impact resistance
- No primer or topcoat needed
- Available in a 2 gallon pail (2095701) & 5 gallon pail (2095801)



Description:

SURE PATCH – NEW & IMPROVED is a three component, 100% solid epoxy mortar designed for resurfacing and repairing damaged or inferior concrete. Recommended for heavy traffic areas or anywhere high strength and excellent wear characteristics are required.

Applications:

- Driveways
- Sidewalks
- Concrete Floor & Walls
- Concrete & Cement Steps
- Anchoring Machinery
- Ramps
- Foundation Walls
- Heavy Traffic Areas

Product Characteristics:

	Part A	Part B	Part C
Appearance & Odor:	Medium viscosity liquid in varying colors	Amber clear liquid with amine odor.	White of tan sand granular crushed or ground- no odor
Boiling Point:	200 to 279°F	>35ºC	Not applicable.
Vapor Density (AIR=1):	Not applicable.	Not applicable.	Not applicable.
Specific Gravity (H20=1):	1.1 - 1.2	1.0	2.65
Water Solubility:	Negligible	Slight	Insoluble in water
Evaporation Rate:	Not applicable.	Not applicable.	Not applicable.
pH:	Not applicable.	9-11	6-8
Storage:	Store locked up. Store in a cool dry place. Seal all partially used containers.		
Transport Information:			
UN Number:	Not regulated.	UN2735	Not regulated.
Proper Shipping Name:	Not regulated.	AMINES, LIQUID, CORROSIVE, N.O.S. (TERTIARY AMINE)	Not regulated.
Class:	Not regulated.	8	Not regulated.
Packing Group:	Not regulated.	III	Not regulated.

Pictograms:



Part A: Part B: Part C:

Signal Word:

DANGER

Personal Protective Equipment Required:



VOC Compliancy:

Not available.

DOT Placard:

Not available.

Directions:

Properly prepare the substrate. Remove all contaminants including curing compounds. Make sure the floor is dry before applying product. Store materials at room temperature prior to using. Apply material between 55-90°F. Product can be applied without a primer; however, any suitable primer can be used depending on application requirements. Mix the Part A and Part B together thoroughly (be certain the mix ratio is correct). After the Part A and Part B are mixed, add in the aggregate. Thoroughly mix to make sure all of the aggregate is wetted out properly. Apply the mixed mortar at the recommended thickness using a hand or power trowel or other suitable equipment.

Cure Schedule:
Pot life (.45 cu. ft. mix) ……30-40 minutes @ 70°F
Recoat or topcoat.....……7-8 hours @ 70°F
Light foot traffic.....……14-16 hours @ 70°F
Full cure (heavy traffic).....……2-7 days @ 70°F
Application Temperature: 55-90°F
Primer: None required.
Topcoat: None required.
Recommended For: Recommended for heavy traffic areas, forklift traffic and steel wheel equipment production areas.
Not Recommended For: Immersion applications for acids and chemicals.

***Improper mixing may result in product failure.**

SOLIDS BY WEIGHT:
100%
VOLATILE ORGANIC CONTENT:
Less than 3.5 g/l
RECOMMENDED THICKNESS:
1/8" to 1/4"
COVERAGE PER UNIT:
21.54 sq. ft. @ 1/4" and 43.1 sq. ft. @ 1/8"
MIX RATIO:
*UNIT = .96 -.98 gallons part A to .26 gallons part B plus 50# aggregate. (weight and volumes approximate)
SHELF LIFE:
2 years in unopened containers
FLEXURAL STRENGTH:
15,150 psi @ ASTM D790
COMPRESSIVE STRENGTH:
11,150 psi @ ASTM D695
TENSILE STRENGTH:
6,800 psi @ ASTM D638
ULTIMATE ELONGATION:
4.65%
IMPACT RESISTANCE:
Excellent
ABRASION RESISTANCE:
Excellent
HEAT DEFLECTION TEMP.:
70.5°C @ ASTM D648
WEATHERING:
Good (chalks)
VISCOSITY:
Part A = 450-750 cps, Part B = 290-500 cps

Limitations:

* Color stability may be affected by environmental conditions such as high humidity or chemical exposure.
* Epoxy products are not UV color stable and may discolor if exposed to certain types of light such as sodium vapor lighting.
* Colors may vary from batch to batch due to variations in the silica filler.
* Mortar colors are not from our standard color chart.
* Substrate temperature must be 50°F above dew point.
* For chemical exposure areas, we recommend a suitable topcoat to reduce porosity and chemical migration.
* All new concrete must be cured for at least 30 days prior to application.
* Test data based on neat resin.
* Physical properties are typical values and not specifications.

Mixing and Application Instructions:

Product Storage: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be above 550°F to prevent product crystallization.

Surface Preparation: All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that an aggressive shot blast be performed prior to the application of this product. A less adequate method would be acid etching, but the etch should properly profile the substrate. All edges and around columns or beams should be mechanically scarified. All termination points should not be feather edged, but should be saw cut with the termination ending at the saw cut. All large cracks should be V cut and filled with an appropriate crack filler. All expansion joints should be filled with an appropriate joint filler. When overlaying an expansion joint, a single saw cut through the epoxy overlay will prevent random fracturing. A test should be made to determine that the concrete is dry; this can be done by placing a 4'x4' plastic sheet on the substrate and taping down the edges; if after 24 hours, the substrate is still dry below the plastic sheet, then the substrate is dry enough to start coating. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause dis-bonding.

Primer: No primer is necessary. This material is self priming. However, any suitable primer can be used.

Product Mixing: It is important that the liquids be mixed together first. Mix the liquids in an oversized container thoroughly and until streak free. After the liquids are thoroughly mixed, add in the aggregate. Mix in the aggregate with slow speed mixing equipment such as a jiffy mixer or rotating bucket/stationary mixing blade assembly. It is equally important that enough time is spent mixing in the aggregate to insure that the aggregate is thoroughly wetted out. No induction time is necessary. Improper mixing may result in product failure.

Product Application: Apply the mixed material at 1/8 to 1/4 inch thickness. Apply the material with a hand trowel or other suitable application equipment. Do not over-trowel the material as this may cause isolated blisters to form. Air currents directly across or above the mortar during the curing process may cause isolated blisters to form. Maintain temperatures within the recommended ranges during the application and curing process.

Recoat Or Topcoating: No re-coating or top-coating is necessary. However, if you opt to topcoat the applied mortar, allow it to cure before top-coating. Many epoxies and urethanes can be used. Contact your sales representative for suitable topcoat selections.

Cleanup: Use xylol

Floor Cleaning: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with the product and process tested.

Restrictions: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see technical data under full cure). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

SURE GRIP #1116

Aerosol Anti-Skid Epoxy Coating

Features:

- Adheres to most hard surfaces
- Aids in meeting OSHA safety requirements
- Convenient aerosol – no mixing or mess
- Most cost-effective means of coating small areas
- Application can last up to 6 months, depending on traffic
- Available in Black (111601)



Description:

SURE GRIP is a unique aerosol that contains a specialized synthetic grit with no sharp edges. This unique formulation is a super hard, texturized one-part epoxy coating that cures very quickly and lasts for months. It has a slip resistant, rough grit surface that reduces the occurrence of slip and fall accidents, helping customers to meet OSHA requirements for safe flooring. Our new convenient aerosol makes applying an anti-skid epoxy coating easier and faster than ever.

Applications:

- Stairs/Floors
- Fiberglass
- Most Metals
- Walkways
- Docks
- Hand Tools
- Public Restrooms
- Wood
- Cement/Asphalt
- Ladders/Ramps
- Loading Docks
- Step Pads

For Use By:

- Construction Companies
- Shipping Operations
- Schools
- Hospitals
- Industrial Plants
- Warehouses
- Nursing Homes
- Municipalities
- Machine Shops

Product Characteristics:

Appearance:	Aerosol
Vapor Pressure:	Not determined
Specific Gravity:	Not available
Explosive Properties	Not available
Solubility (water):	Not determined
Flash Point:	-19°C (-2.2°F)
Boiling Point/Range:	-44°C (-47.2°F)
Flammability Limit – lower (%):	Not available
Flammability Limit – upper (%):	Not available
Heat of Combustion: (NFPA 30B):	Not available
Oxidizing Properties	Not available
Relative Density:	Between 0.77 and 0.85 (Water equals 1.00)
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Transport Information:	
UN Number:	UN1950
Proper Shipping Name:	Consumer Commodity ORM-D Aerosols, flammable
Class:	Not available
Packing Group:	Not available
Special Provisions:	Not available
Packaging Exceptions:	Not available

DOT Placard:



Pictograms:



Directions:

1. Surface must be clean, dry and free of rust before painting. Protect surrounding areas from spray mist. For best results, use when can is between 50°F and 90°F (10°C and 32°C).
2. Shake can at least one minute after rattle is heard and occasionally during use.
3. Spray with steady, even strokes at a distance of 6-10 inches (15 to 25 cm). Several light coats give a better finish than one heavy coat. Tack free in 60 minutes, fully cured in 24 hours.
4. If clogging develops, turn spray head ¼ turn or remove and clean spray head slot. DO NOT stick pin or other object into can opening. With can and spray head pointed away from you, reinsert spray head with a gentle twisting motion.
5. To clear spray head for future use, turn can upside down and spray for 3 seconds. Completely empty cans may be recycled or disposed of with regular trash. Dispose of partially empty cans responsibly. DO NOT incinerate or compact.

Slip Resistant Coatings (SRC) do not exceed 80% VOC or 2.45 MIR.

Shelf Life: 1 year
Coverage: 10 sq. feet per can

Signal Word:
DANGER

Personal Protective Equipment Required:



VOC Compliant: Yes.

Pro Chem, Inc. | 1475 Bluegrass Lakes Parkway | Alpharetta, GA 30004 | 800.241.8180 | www.procheminc.com

EASY PATCH #3479

Versatile, Durable Repair Patch

Features:

- Repairs angled, curved, dented, flat, jointed & irregular surfaces
- No mixing, no mess, no measuring
- Fast curing (5-15 mins)
- Maximum PSI: 200-500 PSI
- Adheres to any surface except polypropylene
- Cures ultra violet (UV) natural or UV lamp
- Temperature range after cured is –30°F to +365°F
- Cures hard as steel
- Fiberglass reinforced polyester
- Oil & chemical resistant
- Fire Rating: Class A (Test Method: ASTM E84)
- Waterproof, rot proof, weather & UV resistant
- Self-adhering
- Flexible before curing
- Impact resistant – extremely durable
- FDA approved for food contact surfaces
- 3 sizes available: 3” x 6”; 6” x 9” and 9” x 12”



Description:

EASY PATCH is a versatile and permanent, easy-to-use, durable repair material with hundreds of uses. This specially formulated patch is reinforced with fiberglass and is activated by ultraviolet light (both natural sunlight and UV lamp). Simply peel off the film to expose the sticky resin, apply it to the prepared surface needing repair and expose to sunlight. It cures in about 10 minutes to a rock-hard, durable, corrosion-resistant surface that can be drilled, sanded or painted, making this a quick and easy solution for all your repair problems. It has been tested by an independent laboratory and is appropriate for use in areas with food contact.

Applications:

- Ground Sleeves
- Transformer Pads
- Rusty Metal Parts
- Gutters
- Hoses
- Autos
- HVAC
- PVC
- Fiberglass
- Rubber
- Concrete
- Copper
- Plastic
- Drywall
- Pipes
- Tanks
- Damaged Wood
- Flashing
- Hitches
- Mirror Panels
- Utility Housing
- Roof Tiles
- Substations
- Truck Lift Buckets
- Wind Turbine Blades – Under 10mm length
- Pad Mounted Transformer
- Flexible Solar Panels
- Sectionalizing Cabinets
- Transmission & Distribution Poles
- Pad Mounted Switch Cabinet
- Exhaust, Fuel Tank, Box Body, Radiator, Bumper
- Condensate Pan, Drain Repairs, Duct Repairs

Areas of Use:

- Construction
- Utilities
- Plumbing
- Irrigation
- Electrical
- DOT
- Transportation
- Municipalities
- Machinery
- Pipe Industry
- Roofing
- Tooling
- Trucking & Trailer Companies
- Water Treatment Plants
- Landscaping Companies
- Industrial & Manufacturing Industry
- Wind & Energy Industry
- Auto, RV & Motorcycle
- Marine & Boat Industry
- Cargo & Freight
- Farm & Ranch
- Pools & Spas
- Water Parks
- Sheet Metal

EASY PATCH #3479 (continued)

Versatile, Durable Repair Patch

Product Characteristics:

Appearance:	Soft, tacky material
Odor:	Sweet
Vapor Pressure:	4.5 (styrene)
Flash Point:	840°F
Vapor Density:	3.6 (styrene)
Evaporation Rate:	0.00
Solubility:	Not soluble in water
Viscosity:	Solid state
Dielectric strength:	9KV/mm as per IEC 243
Compression Strength:	> 29,000 psi (Test Method: BS 2782 – 1998)
Material Thickness:	1.7mm -1.9mm
Flexural Strength:	>18,000 PSI (ASTM D790-03)
Impact Resistance:	>60 Kj/sqm (BS2782-1996)
Arc Resistance:	Greater than 180 seconds as per ASTM D495
Tracking Resistance:	Greater than 600 volts as per IEC 112 15,432 lbs/sq. ft.
Insulation Resistance:	10 to the power of 13 ohms as per IEC 93
Storage:	For maximum storage life and to maintain material workability, store below 72°F (22°C). Material is packaged in special bags impermeable to styrene. Do not puncture bag. Reseal after partial use. Store locked up.

Transport Information (DOT):	
Proper Shipping Name:	Not available
UN Number:	Not available
Class:	Not available
Packing Group:	Not available

Directions:

Rough up area needing repair. Remove film backing from both sides of patch and press firmly to dry, prepared surface.
Expose to sunlight or UV source to cure.

EASY PATCH may not stick to polypropylene. When used inside where sunlight cannot reach the repair area, a UV flashlight (Spec: 350-400 mns/75 mm/11 w) must be used for proper curing.

Pictograms:



Signal Word:

DANGER.

Personal Protective Equipment Required:



DOT Placard:

Not available.

TRUE BOND PATCH #2462

Ready-To-Use Asphalt Patching Compound

Features:

- Will not harden until compressed
- Long lasting – unaffected by freezing temperatures
- Matches original blacktop surfaces
- All-Weather - Use on wet or dry surfaces
- Easy to apply- no mixing required
- Smaller aggregate allows better fill
- Will not track
- Product is self-priming – No primer or tack coat is required
- Area can be immediately opened to traffic
- Shelf life of up to 2 years
- Available in 50lb Bag (246250) & 5 Gallon Pail (246205)



Description:

TRUE BOND PATCH is ready to use, premixed asphalt base patching material for repairing potholes. It is a combination of super hard aggregate, refined asphalt and specially formulated polymers. The polymers give TRUE BOND PATCH the high strength adhesive power that holds the patch together and bonds it to the existing pavement. Special wetting agents have been added so it will adhere to wet surfaces as tenaciously as it does to dry surfaces. This adhesive strength allows it to stick together without raveling like common mixes do.

Applications:

- Parking Lots
- Roadways
- Driveways
- Garages
- Railway Crossings
- Sidewalks
- Bridge Decks
- Asphalt & Concrete Surfaces

Product Characteristics:

Appearance:	Viscous
Odor:	Solvent (mineral spirits)
Vapor Pressure:	No information available
Specific Gravity:	No information available
Solubility:	Insoluble.
Flash Point:	>93°C/>200°F
VOC:	No information available
Storage:	Keep containers tightly closed in a cool, dry, well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition. Store locked up.
Transport Information:	
Proper Shipping Name:	Not regulated
UN Number:	Not regulated
Class:	Not regulated

DOT Placard:
Not regulated.

Pictograms:



Signal Word:
WARNING.

Personal Protective Equipment Required:



Directions:

TRUE BOND PATCH is easy to apply. Sweep out all loose debris from the hole. Apply TRUE BOND PATCH as is to the areas where it is needed. Pack it down with a hand tamper or roller. If the void is deeper than one inch, tamp material down in successive layers of one inch to assure maximum compression. For best results in cold weather, store materials indoors for 24 hours prior to patching outside hole. Open for immediate use. For immediate pedestrian traffic, lightly dust surface with sand or cement powder to reduce tackiness.

SURFACE PREPARATION: The surface should be clean of grease, oil and dirt. If extremely dusty, hose the surface down with water. The surface does not need be dry before applying. Take care to keep vertical edges of hole as clean as possible to allow for best adhesion. Material works best over a solid base; do not use over mud or clay. Remove material from the pail just as it is and place it where needed by shoveling or pouring it in. Level material slightly higher than desired depth to allow for compaction. Pack it down with a hand tamper or roller. If the void is deeper than 1 inch, tamp material down in successive layers of 1 inch to assure maximum compression. No drying or curing time is required. Area can be immediately opened to traffic. Keep bag tightly sealed when not in use.

Coverage Rate - 5 Gallon Pail: Approximately 7 square feet at 1” deep.
Coverage Rate – 50# Bag: Approximately 5 square feet at 1" depth.

Patch is for contained holes ONLY. Do not use to overlay, build curbs, speed bumps, ramps, drive-way extensions, fill trenches, or birdbaths of standing water in asphalt or concrete. Must have retention from ALL sides.

RAPID SET #2095901

Low Temperature Epoxy – New Formula

Features:

- Easy to use 3-component, 100% solids epoxy mortar
- No primer required – self priming
- Cures in temperatures as low as 30°F and high as 80°F
- No topcoat required
- Excellent impact resistance
- Available in gray



Description:

RAPID SET is a three-part component 100% solids epoxy mortar designed for applications where temperatures are below freezing or a rapid patch is necessary. Recommended for cold storage areas, freezers, walkways and support bases for tanks and seamless floors.

Applications:

- Freezers
- Cold Storage Areas
- Walkways
- Support Bases for Tanks
- Seamless Floors

Product Characteristics:

	Part A	Part B	Part C
Appearance & Odor:	Low Viscosity Liquid – Amber Color	Amber Clear Liquid with Amine Odor	White or tan sand granular crushed or ground- no odor
Boiling Point or Range °F:	200 to 375	401°F	N/A
Vapor Density (AIR=1):	N/A	N/A	N/A
Specific Gravity (H2O =1):	1.1	1.0	2.6
Water Solubility:	Negligible	Negligible	Insoluble in water
pH:	N/A	N/A	N/A
Viscosity:	250-320 cps	2,500-3,500 cps	Not available.
Storage:	Store locked up. Store in a well-ventilated place. Keep container tightly closed.		
Transport Information:			
UN Number:	Not regulated.	UN1760	Not regulated.
Proper Shipping Name:	Not regulated.	CORROSIVE LIQUID N.O.S. (CONTAINS PHENOL SOLUTIONS, M-XYLENE DIAMINE)	Not regulated.
Class:	Not regulated.	8	Not regulated.
Packing Group:	Not regulated.	PG111	Not regulated.

Directions:

Request and read the technical data sheet before use. Properly prepare the substrate. Remove all contaminants including curing compounds. Make sure the floor is dry. Store materials at normal room temperature prior to using. Apply material between 30-80°F. Product can be applied without a primer.

Mix the part A and part B together thoroughly (be certain the mix ratio is correct). After the Part A and Part B are mixed, add in the aggregate. Thoroughly mix to make sure all of the aggregate is wetted out properly. Apply the mixed mortar at the recommended thickness using a hand trowel or other suitable equipment.

Note: This product has a very short pot life, working time may be as little as 10-15 minutes once mixed.

Shelf Life: 2 years in unopened containers
Mix Ratio: *Unit= .67-.68 gallons Part A to .25 gallons Part B plus 50# aggregate. (Weight and volumes approximate)
Recommended Thickness: 1/8" to 1/4"
Coverage Per Unit: 20.58 sq. Ft. @ 1/4" and 41.17 sq. Ft. @ 1/8"
Cure Schedule: (70°)
Pot life – (.45 cu. Ft. Mix) ……10-15 minutes
Recoat or topcoat...……3-4 hours
Light foot traffic...……6-8 hours
Full cure (heavy traffic) ...……2-7 days
*Foot Traffic Serviceable……..……24 hours @ 30°F

Not Recommended For:
Immersion applications for active solvents.
Primer:
None required
Topcoat:
None required.

Limitations:
*Color stability may be affected by environmental conditions (high humidity or chemical exposure)
*This product is not UV color stable and may discolor if exposed to lighting such as sodium vapor lights.
*Colors may vary from batch to batch due to variations in the silica filler.
*Substrate temperature must be 5°F above dew point.
*All new concrete must be cured for at least 30 days prior to application.
*Test data based on neat resin.
*Physical properties are typical values and not specifications.
*This product has a short pot life, mix only an amount of material that can be used in the prescribed pot life period.
*When temperatures are low, extended time may be required for the material to cure before allowing industrial traffic.

Pictograms:

Part A 

Part B 

Part C 

Signal Word:
Part A & B & C DANGER.

Personal Protective Equipment Required:



Solids By Weight:
100%
Volatile Organic Content:
Zero Pounds Per Gallon
Flexural Strength:
10,350 psi @ ASTM D790
Compressive Strength:
7,560 psi @ ASTM D695
Tensile Strength:
6,030 psi @ ASTM D638
Ultimate Elongation:
7.30%
Impact Resistance:
Excellent
Heat Deflection Temp.:
113°F @ ASTM D648
Weathering:
Good (chalks)
Abrasion Resistance:
Excellent
Application Temperature:
30-80°F

DOT Placard:
Yes.

VOC Compliancy:
Not available.

C-JOINT #2096102/002, #2095603

Floor Joint Sealer – New Formula

Features:

- 2 Gallon Kit available in Clear (2096002) and Gray (2096102)
- Cartridges available in Clear (2095603)
- Mix ratio: 1 to 1 by volume
- Excellent impact resistance
- Tensile strength of 1,984 psi



Description:

C-JOINT NEW & IMPROVED is a two component, 100% solids polymer system designed for applications where a resilient joint material is needed. Recommended for concrete/cement expansion joints in general industry. The two-component material (standard) is supplied with a gray component and a clear component.

Applications:

- Concrete
- Expansion Joints
- Cement

Product Characteristics: Kit & Cartridges

	Part A	Part B
Appearance & Odor:	Medium Viscosity Clear or Colored Liquid – Negligible Odor	Medium Viscosity Liquid
Boiling Point/Range:	Not applicable.	>300C Decomposes
Vapor Pressure:	Not applicable.	Not applicable.
Specific Gravity (H2O=1):	1.1	1.1
Water Solubility:	Negligible	Negligible
pH:	Not applicable.	Not applicable.
Transport Information:		
UN Number:	Not regulated.	Not regulated (single containers less than 5,000 pounds)
Proper Shipping Name:	Not regulated.	Not regulated.
Class:	Not regulated.	Not regulated.
Packing Group:	Not regulated.	Not regulated.

Pictograms:



Part A Part B

Signal Word:

Part A: Danger
Part B: Danger

Personal Protective Equipment Required:



Mixing and Application Instructions

Product Storage: Store product in an area so as to bring the material to normal room temperature before using. Continuous storage should be between 50-90°F. Avoid low temperatures and large temperature fluctuations in storage as these conditions could cause possible product crystallization.

Primer: No primer is necessary. This material is self-priming. However, any suitable primer can be used.

Recoat or Topcoating: No recoating or topcoating is necessary. However, if you opt to topcoat the applied joint compound, allow it to cure before topcoating. It is not necessary to prime over the joint compound prior to topcoating the joint compound. Many epoxies and urethanes can be used. In some instances, especially when excessive expansion joint movement is involved, topcoats may chip or crack. However, most epoxy or topcoat products will adhere to the joint compound very well.

Cleanup: Use xylol.

Floor Cleaning: Caution! Some cleaners may affect the color of the floor installed. Test each cleaner in a small area, utilizing your cleaning technique. If no ill effects are noted, you can continue to clean with a product and process tested.

Restrictions: Restrict the use of the floor to light traffic and non-harsh chemicals until the coating is fully cured (see full cure under full cure schedule section). It is best to let the floor remain dry for the full cure cycle. Dependent on actual complete system application, surface may be slippery, especially when wet or contaminated; keep surface clean and dry.

Surface Preparation: All dirt, oil, dust, foreign contaminants and laitance must be removed to assure a trouble free bond to the substrate. We recommend that all loose concrete, previous joint compound or other foreign material be removed to leave a clean sound joint at least 1/2" deep. For best results, edges should be sawcut and a backer rod should be placed into the joint. At a minimum, the joint depth should be at least ½ the joint width from the top of the backer rod to the top of the joint with a minimum of ½".

DOT Placard:

Not available.

VOC Compliancy:

Not available.

MIX RATIO:
1 to 1 by volume

SHELF LIFE:
2 Gallon Kit: 6 months in unopened containers properly stored at normal room temperature. (mix before use- gallon kits)
Cartridge: 6 months in unopened containers properly stored at normal room temperatures.

HARDNESS:
40-45 Shore D

COMPRESSIVE STRENGTH:
2,300 psi

TENSILE STRENGTH:
1,984 psi

ELONGATION AT BREAK:
100%

IMPACT RESISTANCE:
Excellent

ABRASION RESISTANCE:
18.2 mg loss with a 1000 gram total load at 1000 revolutions with a CS17 wheel

ADHESION:
2 Gallon Kit: 410 psi (elcometer) – no delamination/concrete failure
Cartridge: 410 psi (elcometer) – concrete failure

VISCOSITY:
Mixed= 1,200 cps – 1,400 cps (typical)

DOT CLASSIFICATIONS:
Part A "not regulated"
Part B "not regulated"
Excellent

SOLIDS BY WEIGHT:
100%

VOLATILE ORGANIC CONTENT:
2 Gallon Kit: Zero pounds per gallon
Cartridge: Less than 1 g/l

COLORS AVAILABLE:
2 Gallon Kit: Medium gray (mixed) Part A is Gray and Part B is clear.
Cartridge: Available in clear

RECOMMENDED THICKNESS: 1/2" to 1 1/2"

COVERAGE:
2 Gallon Kit: @ 1/2" by 1.0" yields 74-78 lineal feet
Cartridge: A tube set is 600ml (approximately 0.1585 gallons) Six tube sets is approximately 0.935 gallons (Approximate coverage rate for 1 tube set @ ½" wide by ½" deep would be 11 to 12 lineal feet)

Directions:

Application Procedures:
2 Gallon Kit:
Request and read the technical data sheet before use. Remove all dirt and foreign contaminants. Make sure the joint is dry. All loose concrete and previous joint compound must be removed to leave a dry clean sound joint. For best results, edges should be saw cut and backer rods can be used to regulate depths to around 1/2 inch in joint. Mix part A and part B together at the correct mix ratio and mix well with slow speed mixing equipment until uniform in color and consistency being sure to scrape the sides and bottom of the mixing pail thoroughly. Avoid high speed mixing as this could force air into the product. Improper mixing will cause an incomplete cure and soft spots in the joint. Apply the mixed product by pouring the material into the expansion joint to be repaired. Remove any excess material either immediately with a putty knife or allow to cure until it can be cut with a razor type scraper at the joint level.

Cure Schedule: (70°) (2 Gallon Kit):
Pot life……..……..……..……25-35 minutes
Recoat or topcoat.……..……..….....4-7 hours
Light foot traffic.....……..…….....8-12 hours
Full cure (heavy traffic)... ……..…….....3-5 days
Application Temperature: 60-90°F
Primer: None required
Topcoat: None required. Many epoxies and urethane are compatible.
Recommended For: Recommended for concrete/cement expansion joints in general industry.
Not Recommended For: Not recommended for applications for all acids and chemicals.

***Improper mixing may result in product failure.**

Cartridge:
Discard the unmixed portion of mixed material at the start of each application. This product has a very short pot life of 1-2 minutes and should be applied with a dual cartridge caulking gun using the ½" diameter 30 element tip. Apply the mixed product by pumping the mixed material in a continuous motion into the expansion joint to be repaired. Remove any excess material with a razor scraper or similar tool after the material has set up enough to cut through with the razor scraping toll. On areas that are not shaved or leveled with a razor scraping tool, it would be advisable to roughen the surface of the joint compound to maximize adhesion of any subsequent coating. Maintain temperatures within the recommended ranges during the application and curing process. When temperatures are lower, allow more time for this material to cure.

Cure Schedule (Cartridge):
Pot life (150 gram mass) ……..……....1-2 minutes @ 70°F
Recoat or topcoat...……....1 hour @ 70°F
Light foot traffic...……..……1-3 hours @ 70°F
(Heavy traffic)...……..…….....3-5 days @ 70°F
Application Temperature: 40-90°F (lower temperatures will require additional cure time)
Primer: None required
Topcoat: None required. However, many types of products can be used as coatings or overlays for the area that has been patched.

Limitations:

*Color stability may be affected by environmental conditions such as high humidity, chemical exposure or exposure to certain types of light such as sodium vapor lighting.
*Colors may vary from batch to batch.
*Substrate temperature must be 5°F above dew point.
*All new concrete must be cured for at least 30 days prior to application
*This product must be mixed well.
*Apply sample installation at an off-sight location before using material in a commercial setting to become familiar with material limitations.
*Product is not UV color stable.
*This product was developed for plural component mixing equipment and may not be practicable for other applications because of the very short pot life. Contact your representative for equipment recommendations.
*Test data based on neat resin.
*Physical properties are typical values and not specifications.

FLOOR MARKING TAPES #82111

Laminated Polyester Floor Marking Tape

Features:

- ANSI Standard Z535.1 for color
- Average dry BPN: 125 (Dynamic slip resistance using ASTM E303-93 (2013) pendulum test method)
- Average dry dynamic coefficient of friction: Overall average: Dry 0.60
- ANSI A137.1 flooring slip resistance test (Dry)
- Size: 4” x 100’
- Safety Yellow (821111), Safety Blue (821112), White (821114), Safety Red (821115)



Description:

FLOOR MARKING TAPES provide a long-lasting solution for marking floors, aisles, walkways, and workflow in your facilities. This extra-tough, low profile, easy to apply floor marking product is made with thick polyester materials making this tape highly durable, as well as abrasion and chemical resistant.

The rigid construction makes this tape easy to install as well as easy to clean and maintain. The aggressive adhesive will bond to most floors making this tape resistant to tearing, wrinkling or lifting even under heavy forklift traffic. Once applied, the low-profile design makes this tape a great choice for use in areas with the forklift, hand truck, or pedestrian traffic. Removes from most floor surfaces cleanly without chipping, tearing or leaving unsightly adhesive residue.

Applications:

- Warehouses
- Municipalities
- Forklift Area
- Utilities
- Garages
- Public Safety

4

Personal Protection Equipment (PPE)

CATEGORIES

1 Overview

2 Kits

3 Protective Wear & Safety Equipment

PRO CHEM®

Personal Protection Equipment (PPE)

Why should your employees wear Personal Protection Equipment?

- Personal Safety and Protection
- OSHA Regulations
- Product Handling Enhancement

What facility environment indicates the need for Personal Protection Equipment?

- Food Processing
- Package Handling
- Chemical Handling
- Electrical Equipment

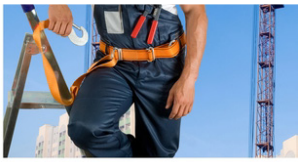


What items are included in the Personal Protection Equipment Category?

- Gloves
- Respirators
- Eye Protection
- Hearing Protection
- Protective Clothing









Occupational Safety & Health Administration (OSHA) is a governmental agency responsible for implementing workplace safety by setting and requiring certain regulations and safe practice standards.

The National Institute for Occupational Safety and Health (NIOSH) is the U.S. federal agency that conducts research and makes recommendations to prevent worker injury and illness.

America National Standards Institute (ANSI) is a private non-profit organization that oversees the development of voluntary consensus standards for products, services, processes, systems, and personnel in the United States

OSHA relies on NIOSH and ANSI standards to insure quality and efficient safety protection in the workplace.

Evidence shows that companies who implement effective safety and health programs can expect to see their injury and illness rates reduced by 20 percent or more and a return of $4 to $6 for every dollar invested in the safety program.

10/2019

FIRST AID KIT #4091

White Metal First Aid Station

Features:

- Wall mountable
- White metal case
- Contents exceed requirements for ANSI Z308.1-2009
- To assist in compliance with OSHA standards for industry and construction
- For work environments with up to 25 people
- 6.5”L x 9.5”W x 2.75”D



Includes the Following:

- 50 adhesive strips- 1”x3”
- 4 fabric knuckle bandages
- 5 fabric fingertip bandages
- 3 fabric XL adhesive strips
- 1 large wound pad- 6”x9”
- 5 gauze pads 4”x4”
- 1 gauze bandage 4”
- 1 adhesive tape- ½” x 5 yd.
- 30 alcohol wipes
- 6 first aid/burn cream packets
- 6 triple antibiotic ointment
- 3 sting relief wipes
- 1 eyewash, 4 oz.
- 4 eye pads
- 4 eye strips
- 1 triangular bandage
- 3 pain reliever packets (2/packet)
- 4 non-latex exam gloves
- 1 cold pack
- 1 scissors
- 1 forceps
- 1 first aid guide

Applications:

- Offices
- Factories
- Warehouses
- Bus Garages
- Colleges/Universities
- Municipalities
- Utility Companies
- Fleet Operations
- Industrial Plants

DOUBLE BOTTLE EYE FLUSH STATION #4160501

With Wall Mount

Features:

- Includes 2 16 ounce bottles of eye wash
- Includes a wall mount
- Use for flushing or irrigating eyes



Description:

Double bottle eye flush station with wall mount. Used for flushing or irrigating the eyes. Includes eye cup for easily focusing the fluid stream into affected eye. Includes two 16 ounce bottles of eye wash.

DISPOSABLE, UNCORDED EAR PLUGS #413702



- Tapered
- Soft foam gently expands to self adjust to all size ear canals
- High visibility orange
- Noise Reduction Rating (NRR): 32 dB
- Single Number Rating (SNR): 36 dB
- Restrictions of Hazardous Substances (RoHS) compliant
- Dimensions: 1 x ½ inch

DISPOSABLE, EAR PLUGS **WITH CORD** #413701



- Tapered
- Soft foam gently expands to self adjust to all size ear canals
- Hi-vis orange
- Noise Reduction Rating (NRR): 32 dB
- Single Number Rating (SNR): 36 dB
- Restrictions of Hazardous Substances (RoHS) compliant
- Dimensions: 1 x ½ inch
- Cord length: 44 inches

EAR PLUGS - REUSABLE #412701



- Three flexible rubber flanges form a secure seal
- Reusable ear plugs can be cleaned with soap and water
- Noise Reduction Rating (NRR): 24 dB
- Single Number Rating (SNR): 30 dB
- High visibility orange ear plug with high visibility lime cord
- Dimensions: ½ x 1 inch
- Cord length: 27.5 inches

EAR PLUGS - METAL DETECTABLE #414401



- Disposable, corded ear plugs with an embedded iron ball
- Metal and magnetic detectable for use in food manufacturing
- Soft foam gently expands and self adjusts to all ear canal sizes
- NRR: 32 dB
- SNR: 36 dB
- Plug dimensions: 1” x ½ inch

COMPLIANCE PRODUCTS

WET FLOOR SIGN ENGLISH / SPANISH #4703

Features:

- New handle makes it easier to grab with gloves
- Pinch handle allows easy, one-handed
- Base vents allow for faster drying
- Folds flat for space-saving storage
- Highly visable
- Secures areas needing to be marked off
- Made in USA



SDS RIGHT TO KNOW CENTER #4750

Features:

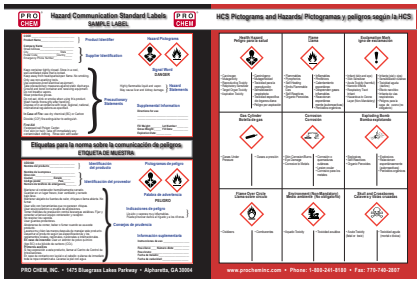
- Sturdy, plastic, 3”, 3-ring binder that holds over 600 sheets
- Wire rack to hold binder
- Heavy-duty wire rack is epoxy coated to resist rust and corrosion
- Complies with OSHA’s Hazard Communication Standard 29 CFR 1910.1200



GHS COMPLIANCE POSTER #9018

Features:

- Quick reference for employees
- Breakdown of GHS hazard symbols
- English and Spanish
- Durable, heavy weight paper
- 12” x 18” in size



MICROPOROUS COVERALLS #429201 Large, #429202 X-Large, #429203 XX-Large, #429204 XXX-Large

Features:

- Offers an excellent fit with a much roomier garment
- Exceeds ANSI/SEA 101-96 sizing standard by 1” all around the pattern
- Resists tears, especially in stressed areas of the garment
- 30” zipper front for ease of donning and doffing
- Holds out Oil-Tyvek does not-SMS does not-Other non-laminated fabrics do not
- Offers a high degree of MVT breathability for greater comfort inwarmer climates
- Wicks moisture away from the skin for a cooler feeling



SAFETY GOGGLES #4777

Features:

- Polycarbonate lens provides 99.9% protection against harmful UVA and UVB rays
- Elastic band allows for a perfect fit
- Indirect vent
- Cap vents
- Exceeds ANSI Z87.1-2003 High Impact Requirements
- Soft PVC Body
- Adjustable elastic headband
- Fits over most prescription eyewear
- Chemical splash resistant



HARD HAT YELLOW 6 POINT #4115

Head Protection

Features:

- ABS material is ultralight but strong
- Rated Type 1 class E,G,& C
- Meets ANSI /ISEA Z89.1-14 & CSA 294.1-15
- Rear padded suspension
- Low center of gravity for better balance
- 6 point ratcheting harness for ultimate comfort
- Has been tested and passes rear orientation
- Impact and electrical resistance



Description:

This HARD HAT is comfortable while it keeps you safe. Its rigid shell deflects blows to the head. It has been tested safe to withstand up to 22,000 volts of electricity. The 6-point ratcheting suspension system and rear padding provides the ultimate in comfort. The HAT has a replaceable sweatband made of polyurethane foam and padded fabric.

Applications:

- DOT
- Manufacturing
- Parks & Rec
- Construction
- Utilities
- Municipalities

Directions:

Clean with mild soap and water. Store in a clean, dry place that is out of direct sunlight. Maximum service life of 5 years (shell) & 1 year (suspension) from the time of first use. Never alter or modify the shell or suspension system. Replace after it receives considerable impact. Do not use paints, chemicals, adhesives, gasoline or similar substances on the hard hat. Labels are acceptable if they do not affect a hard hat's rating or make it difficult to find damage.

HARD HAT SHADE #4113

High Visibility Heat Stress Shade

Features:

- High visibility yellow
- Extended length for additional protection
- Cotton twill with wire spring rim
- Folds away into a 6" pouch
- Fits most hard hats
- Protects from UV rays



Description:

This fluorescent yellow hard hat shade protects you from the sun. It provides shade without compromising the fit or protection your hard hat provides. It has extra length in the back to protect your neck and a full brim in front to protect your face from harmful, UV rays.

Applications:

- DOT's
- Municipalities
- Parks & Rec
- Public Safety
- Utilities
- Maintenance

RANGER HAT HI-VIS YELLOW, VENTED #411121

High Visibility Ranger Hat

Features:

- High visibility yellow
- Lightweight, cooling ranger style hat
- Rated UPF 50+
- 2-inch reflective piping and tape
- Breathable mesh
- Adjustable drawstring
- One size fits most



Description:

This fluorescent yellow, mesh safety hat helps keep you safe with its bright color and 2” reflective tape. Because it is made out of breathable mesh, it helps keep you cool while providing shade.

Applications:

- DOT’s
- Municipalities
- Parks and Recreation
- Public Safety
- Utilities
- Railroads

COOLING PRODUCTS

Towels, Bandana & Hard Hat Cooling Pads

COOLING TOWEL – BLUE #4116

Features:

- Instant cooling relief
- 100% PVA technology
- Lightweight
- Activates in one minute
- Feels dry to the touch
- Super absorbent to hold water without weighing you down
- Anti-mold & UPF 50+
- Machine Washable
- Reusable
- 29.5” L x 14” W



COOLING BANDANA #4114

Features:

- 100% cotton - not a blend or polyester
- Triple washed to avoid bleeding or staining
- Works without freezing or ice
- Stays hydrated for several days
- Reusable
- Interlocking stitches to prevent polymer crystals from leaking
- No slimy feel like some other brands



HARD HAT COOLING PAD #4120

Features:

- Evaporative cooling material provides hours of heat stress relief
- Fits on the suspension of a hard hat with hook and loop closures
- To activate, soak in cool water for 2-5 minutes
- Reusable – just reactivate
- One size fits all





SKULL CAP WITH TIES #4122

Features:

- Moisture wicking, soft material
- Traps and absorbs sweat
- Designed for easy tying
- Machine washable
- Keeps sweat out of the eyes



Applications:

- DOT’s
- Municipalities
- Parks & Rec
- Public Safety
- Utilities
- Railroads/Construction

MULTI-PURPOSE COOLING NECK BAND #4125

Heat Stress Prevention

Features:

- Rated UPF 50
- Reusable
- Machine washable
- One size fits most
- Moisture-wicking material
- Activated by water
- Available in Hi-Vis Yellow (412501) blue (412511), camo (412531) and black (412521)



Description:

MULTI-PURPOSE COOLING NECK BANDS are easy to clean and keep you cool on the hottest of days. The multi-purpose band can be used and worn in a variety of ways. The cooling bands are activated by water. There are two key factors that make this a cooling product. The material is moisture wicking, lightweight and will soak up sweat without getting heavy and soaked. Another key factor is that the product is rated UPF 50. While being lightweight and breathable, the bands also provide excellent protection against the sun.

Applications:

- Maintenance
- Manufacturing
- Parks and Recreation
- Construction
- Utilities
- Municipalities

COOLING VEST #4123

Class 2, Hi Viz Safety Vest

Features:

- Evaporative PVA panels keep you cool for up to 8 hours
- 2” silver reflective material
- Quilted outer shell is made with soft polyester
- Zipper front closure
- Adjustable waist band
- Reusable and washable
- Vest: 100% polyester solid material with quilted fill & mesh
- ANSI/ISEA 107-2015 Class 2, Type R



Description:

Fluorescent yellow safety vest keeps you safe and reduces the risk of an accident while keeping you cool. It is ANSI/ISEA 107-2015 Type R CLASS 2 rated and meets the standards set by the American National Standard Institute for High Visibility Apparel and Headwear. CLASS 2 is defined by the amount of retroreflective tape per yardage, its size and amount of background vest material. TYPE R is a Roadway Classification for any occupational worker who is exposed to traffic or moving equipment.

Applications:

- DOT’s
- Municipalities
- Parks & Rec
- Public Safety
- Utilities
- Railroads

Directions:

Submerge in cool water for 1 – 2 minutes before wearing to activate.

Vest is machine washable in cold water.

Do not bleach or use fabric softener.
Do not tumble dry.
Do not iron.

Pro Chem, Inc. | 1475 Bluegrass Lakes Parkway | Alpharetta, GA 30004 | 800.241.8180 | www.procheminc.com

VEST – SAFETY MESH CLASS 3 #4121

Class 3, Hi Visibility Safety Vest

Features:

- ANSI/ISEA 107-2015 Type R Class 3 rated
- 2” silver reflective tape backed by contrasting ANSI compliant trim
- 100% ANSI polyester mesh fabric
- Hi Vis yellow
- Large arm opening for use over cold weather outerwear
- Zipper closure
- Double left chest pocket with 4 pencil compartments
- Right chest radio/phone pocket with hook & loop flap
- 2 lower front pockets
- 2 inside lower pockets
- 1 inside flashlight pocket
- Available in sizes medium up to 5XL



Description:

Fluorescent yellow safety vest keeps you safe and reduces the risk of an accident. It is ANSI/ISEA 107-2015 Type R CLASS 3 rated and meets the standards set by the American National Standard Institute for High Visibility Apparel and Headwear. CLASS 3 provides the highest level of visibility even through a wide range of movement and intricate backgrounds.

Applications:

- DOT’s
- Municipalities
- Parks & Rec
- Public Safety
- Utilities
- Railroads

Pro Chem, Inc. | 1475 Bluegrass Lakes Parkway | Alpharetta, GA 30004 | 800.241.8180 | www.procheminc.com

SAFETY SHIRT – CL3 – YELLOW #4124

Hi-Viz Standard Safety Shirt – Short Sleeved

Features:

- High-Visibility, lightweight polyester moisture wicking t-shirt
- 2” silver reflective material
- Rated UPF 30+
- Heat sealed tape
- Chest pocket 5.5”x5”
- Short sleeves keep you cool in the heat
- Meets ANSI/ISEA 107-2020 Type R Class 3 Not FR



Description:

This fluorescent yellow SAFETY SHIRT helps to keep you safe and reduces your risk of an accident. It is ANSI/ISEA 107-2020 Type R Class 3 rated and meets the standards for High Visibility Apparel and Headwear. It is safe to use on roadways, construction jobs sites and other work areas that require high-visibility ANSI protection. Made from knitted 100% polyester, this fabric allows breathability and comfort. Retroreflective tape illuminates day and night.

Applications:

- DOT’s
- Municipalities
- Parks & Recreation
- Public Safety
- Utilities
- Railroads
- Fleet Operations
- Construction Sites

Sizes:

Medium (#412401)
Large (#412402)
X Large (#412403)
2X Large (#412404)
3X Large (#412405)
4X Large (#412406)
5X Large (SP412407)

Directions:

May be washed up to 25 times in cold water on gentle cycle.
Do not bleach or use fabric softener.
Do not tumble dry.
Do not iron.
Hang dry.

HI-VIS INSULATED VEST #SP413210

Class 2, Hi-Vis Insulated Safety Vest

Features:

- ANSI/ISEA 107-2020 Type R Class 2 Not FR – non-rated when reversed
- 2” silver glass bead reflective tape
- High visibility lime/yellow
- Zipper front closure
- Lined with quilted fiber fill polyester
- 270g quilted lining provides warmth and comfort
- 2 hand warmer pockets on each side
- Tapered back for added protection
- Dark color on reverse side helps conceal dirt while reflective piping enhances visibility
- Material: Winter vest: 150D polyurethane (PU) coated weather resistant polyester shell
- 270gsm quilted polyester cotton with 210T taffeta
- Machine washable – cold water – gentle cycle – max 25 washes
- Available in sizes medium up to 3 X-Large



Description:

HI-VIS INSULATED VEST helps to make the wearer more visible in all work lighting conditions and environments. It is ANSI/ISEA 107-2020 Type R CLASS 2 rated and meets the standards set by the American National Standard Institute for High Visibility Apparel and Headwear. CLASS 2 is defined by the amount of retroreflective tape per yardage, its size and amount of background vest material. TYPE R is a Roadway Classification for any occupational worker who is exposed to traffic or moving equipment.

Applications:

- DOT’s
- Municipalities
- Parks & Recreation
- Public Safety
- Utilities
- Railroads

CLASS 3 SAFETY WEAR #4762

Class 3, Jacket, Hoodie Yellow with Black Bottom

Features:

- ANSI Class 3 compliant
- 2" silver reflective tape
- 100% 9 oz. polyester fleece
- Elastic cuffs & waistband
- Two lower slash pockets
- Available in sizes SM – 5XL



Description:

Keep warm and stay visible in cool weather with this safety hoodie. It features a full zip closure, two lower front slash pockets and a black bottom front to help hide dirt.

For Use By:

- Municipalities
- DOT's
- Utilities
- Fleet Operations
- Military Facilities
- Surveyors
- Freight Carriers
- Railroads
- Public Safety Officers

CLASS WEATHER SAFETY

Hoodies, Jackets and Sweatshirts

JACKET – TYPE R CLASS 3 BLK BOTTOM W/REMOVABLE LINER - YELLOW

Features:

- ANSI/ISEA 107-2015: AATCC 127 - Type R - Class 3 - Not FR
- Waterproof Testing
- Waterproof hi-vis polyester shell with quilted lining
- Elastic knit at wrists & waist
- Cell phone/radio chest pocket with clear panel on outside shell
- Mic tabs & pencil pocket

Sizes: Large (SP873702), X-Large (SP873703), 2X-Large (SP873704), 3X-Large (SP873705), 4X-Large (SP873706), 5X-Large (SP873707)



JACKET, HOODIE YELLOW W/BLK BOTTOM

Features:

- ANSI/ISEA 107-2015 - Type R - Class 3
- 100% polyester 280 gsm fleece
- Elastic knit at wrists & waist
- 2” silver reflective material
- Zipper front closure
- Mesh lined hood with adjustable pull cord
- 2 outside pockets
-

Sizes: Medium (476201), Large (476202), X-Large (476203), 2X-Large (476204), 3X-Large (476205), 4X-Large (476206), 5X-Large (476207)



JACKET – HOODIE BLACK W/REFLECTIVE STRIPES

Features:

- ANSI/ISEA 107-2015 - Type 0 - Class 1 - Not FR
- Black background polyester sweatshirt
- 2” silver reflective material with contrasting tape
- Elastic band at wrists & waist
- Drawstring hood and zipper front closure
-

Sizes: Small (SP887000), Medium (SP887001), Large (SP887002), X-Large (SP887003), 2X-Large (SP887004), 3X-Large (SP887005), 4X-Large (SP887006), 5X-Large (SP887007)



For Use By:

- Municipalities
- DOT’s
- Utilities
- Fleet Operations
- Military Facilities
- Surveyors
- Freight Carriers
- Railroads
- Public Safety Officers

CLASS WEATHER SAFETY – NON-STOCK

Hoodies, Jackets and Sweatshirts

BOMBER JACKET – TYPE R CLASS 3 QUILTED LINER



Features:

- ANSI/ISEA 107-2015: AATCC 127 - Type R - Class 3 - Not FR
- Waterproof Testing
- Waterproof hi-vis polyester shell with quilted lining
- Elastic band at waist & wrists
- 2” silver reflective material with contrasting color time with X pattern on back
- Cell phone/radio chest pocket with clear panel, mic tabs & pencil pocket
- Concealed hood & zipper front closure

Sizes: Medium (SP874601), Large (SP874602), X-Large (SP874603), 2X-Large (SP874604), 3X-Large (SP874605), 4X-Large (SP874606), 5X-Large (SP874607), 6X-Large (SP874608)

JACKET, TYPE R CLASS 3 BLK BOTTOM W/REMOVABLE LINER - ORANGE



Features:

- ANSI/ISEA 107-2015: AATCC 127 - Type R - Class 3 - Not FR
- Waterproof Testing
- Waterproof hi-vis polyester shell with quilted lining
- Elastic knit at wrists & waist
- Cell phone/radio chest pocket with clear panel on outside shell
- Mic tabs & pencil pocket

Sizes: X-Large (SP874803), 2X-Large (SP874804), 3X-Large (SP874805), 4X-Large (SP874806), 5X-Large (SP874807)

SWEATSHIRT HOODIE HI-VIS PULLOVER BLACK BOTTOM



Features:

- ANSI/ISEA 107-2015 - Type R - Class 3
- 100% polyester 280 gsm fleece
- Elastic knit at wrists & waist
- 2” silver reflective material
- Pull over type sweatshirt
- Mesh lined hood with adjustable pull cord
- 1 large front pocket

Sizes: Medium (SP886701), Large (SP886702), X-Large (SP886703), 2X-Large (SP886704), 3X-Large (SP886705), 4X-Large (SP886706), 5X-Large (SP886707)

HEATED JACKET



Features:

- Waterproof – ANSI 107- 2020: AATCC 127
- Polyester shell with zip out polar fleece liner
- Heated jacket with 3 warming zones; 2 in front & 1 in back
- Choice of 3 temperature settings
- Power bank included
- Zipper front closure with concealed detachable hood
- Elastic band at waist & wrist
- Mic tabs & pencil pocket
- Cell phone/radio chest pocket
- 8 pockets; 5 out 3 in

Sizes: Small (SP812100), Medium (SP812101), Large (SP812102), X-Large (SP812103), 2X-Large (SP812104), 3X-Large (SP812105), 4X-Large (SP812106), 5X-Large (SP812107)

CLASS WEATHER SAFETY – HEAD GEAR

Hat Liners

HARD HAT LINER #SP876501

Features:

- 100% cotton twill/quilted hat
- Self-extinguishing treatment
- Adjustable chin strap and hard hat suspension straps
- This accessory has been third-party tested and can be worn under most ANSI/ISEA compliant hard hats

Sizes: One size fits most



HARD HAT LINER W/EAR POCKETS #SP823601

Features:

- Two layers - Cotton Twill/Fleece winter liner with FR treated outer shell
- Flame retardant treatment on outer shell
- Silver reflective strip on back for visibility
- Red fleece lining provides added comfort
- Insulated ear barrier and ear warmer pockets
- Elastic at the forehead for tight fit

Sizes: One size fits most



BALACLAVA – HINGED FLEECE #SP823201

Features:

- Can be worn in a variety of ways from face mask to neck gaiter
- Mesh breathing panels increase airflow while minimizing condensation on your eyewear
- Self-extinguishing thermal fleece and mesh material
- This accessory has been third-party tested and can be worn under most ANSI/ISEA hard hats

Sizes: One size fits most



BEANIE CAP – FLEECE LINED #4117/4118

Features:

- 65 gm acrylic knit with reflective stripe
- 180 gm polyester fleece lining for a warmer, more comfortable fit under a hard hat
- Holds up longer than just acrylic in rough conditions
- Comes in black (411801) or yellow (411701)

Sizes: One size fits most



GLOVES – PALM DIPPED

Range of Palm-Dipped Gloves

Cotton/Poly String Knit with Latex Coated Palm & Fingers #4376



Features:

- Flexible knit wrist
- Latex crinkle coatings feature creases or wrinkles on the surface of the coating that are designed to channel fluids away allowing better contact on dry or wet surfaces
- Natural rubber that is flexible, tough and durable due to its high degree of resistance to snagging, puncture and abrasion
- Seamless knit polyester/cotton shell is comfortable, flexible and breathable
- Available in Medium, Large and X-Large

Great For: Rock Quarry, Equipment Rental, Bottling Plant, Brick and Mortar/Concrete, Demolition

Palm Coated Flat-Dip Nitrile with Sandy Foam CE Level 4 #4378



Features:

- Breathable back
- HPPE (Olefin), nylon and glass fiber shell
- Knit wrist with color coded hem
- EN 388: 2X42X, ANSI Cut Level 4, ANSI Abrasion Level 4, ANSI Puncture Level 4
- Double-dipped sandy foam nitrile coated palm
- Available in Large, X-Large and 2X-Large

Great For: Aviation, Airport Metal Works, Railway/Transit, Paper Mills

HPPE Level 3 with PU Coated Palm #4379



Features:

- Breathable back
- EN 388: 4343 (Cut Level 3)
- HPPE (Olefin)/Nylon/Spandex Shell for Maximum Strength
- Knit wrist with color coded hems
- Polyurethane coated palm
- Available in Large

Great For: Machine Shop, Die Cast/Foundry, Carpet & Textile Manufacturing, Bottling Plant, Brick & Mortar, Concrete, Rock Quarry, Sheet Metal

Black Nylon with Sandy Foam Nitrile Coated Palm Knit Wrist #4380



Features:

- Palm dip of super-thin foam Nitrile/Polyurethane
- 13 gauge seamless nylon shell for breathability and comfort
- Knit wrist with color-coded hem
- Breathable back
- EN 388: 1131 (Cut Level 1)
- Available in Small, Medium, Large, X-Large and 2X-Large

Great For: Tire, Sheet Metal, Machine Shop, Die Cast, Foundry, Aviation, Airport Metal Works, Waste Disposal, Recycling

Palm Dip Touch Screen #4390



Features:

- HPPE (olefin)/nylon glass fiber/spandex shell
- Touchscreen fingers
- PU palm dip
- Silicone free
- Knit wrist with color-coded hem
- ANSI Cut Level 4
- Available in Large and X-Large

Great For: Die Cast/Foundry, Aviation/Airport, Metal Works, Equipment Rental, Manufacturing, Gas and Electric, Municipalities, Sheet Metal, Machine Shop

High Visibility Green ANSI Cut Level 6 #4392



Features:

- High visibility green HPPE (olefin)/glass/poly/spandex shell
- Black sandy nitrile palm dip
- Padded palm
- Knit wrist with color-coded hem
- ANSI Cut Level 6
- Available in Medium, Large and X-Large

Great For: Die Cast/Foundry, Aviation/Airport, Metal Works, Equipment Rental, Carpet and Textile Manufacturing, Gas and Electric, Municipalities, Sheet Metal, Machine Shop

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Knit Wrist Maximum Strength #4394



Features:

- HPPE (olefin)/nylon glass fiber/spandex shell for maximum strength
- Knit wrist to keep out dirt and debris
- Breathable back
- PU coated palm
- ANSI Cut Level 4, EN 388 Cut Level 3
- Knit wrist with color-coded hem
- Available in Medium, Large and X-Large

Great For: Die Cast/Foundry, Aviation/Airport, Metal Works, Equipment Rental, Carpet and Textile Manufacturing, Gas and Electric, Municipalities, Sheet Metal, Machine Shop

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Micro-Foam Nitrile #413370



Features:

- Nitrile micro-foam palm coating
- Touch sensitivity
- Good grip in all conditions
- Tear and abrasion resistant
- Material: Nitrile Micro-Foam
- Liner: 15 Gauge Nylon + Spandex (Silicone Free)
- Cuff: Nylon + Latex Elastic
- Comply with EN ISO 21420 for comfort, fit and dexterity.
- ANSI/ISEA 105-2016 – CUT A1 | PUNCTURE 2 | ABRASION 6 EN388:2016 – 4131X
- Available in Medium (4133701), Large (4133702), X-Large (4133703) and 2X-Large (4133704)

Great For: General Purpose, Warehousing, Automotive, Horticulture, Construction, Manufacturing

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Polyester Knit Shell PU Palm #413410



Features:

- Polyurethane palm coating
- 13 gauge polyester liner
- Touch sensitivity
- Low particulate shed
- Dark color hides stains
- ANSI/ISEA 105 – CUT A1 | ABRASION 3 | PUNCTURE 2 EN388 – 3131X
- Coating: Polyurethane
- Liner: Polyester
- Cuff: Polyester + Latex
- Available in Medium (4134101), Large (4134102), X-Large (4134103) and 2X-Large (4134104)

Great For: Electronics, General Duty, Parts Assembly, Quality Control, Inspection, Construction

GLOVES – DISPOSABLE

Disposable Gloves for General and Nonmedical Use

Premium Plus H.D. Orange Nitrile Gloves #4383

Features:

- Diamond texture increases gripping power
- Industrial grade
- Component material that complies with FDA regulations for food contact
- Polymer coated on interior of glove
- Beaded cuff
- 9 ½ inches long
- 3 times the puncture resistance of latex gloves
- Ambidextrous
- Powder and latex free
- High visibility orange color
- 8 – 9 mil thickness; fits and feels like 7 mil glove and has the durability of a 10 mil glove
- Available in Medium, Large, X-Large and XX-Large



Great For: Auto Supply, Body Shops, Schools, Universities/Colleges, Hotels/Motels, Cafeterias, General Purpose

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Nitrile Disposable Blue #4709

Features:

- Material provides durability with higher level grip featuring qualified Class I medical devices component material
- Component material complies with FDA regulations for food contact
- Textured fingertips for exceptional grip
- Stretch fit for flexibility
- Rolled beaded design
- Powder and latex free
- Ambidextrous
- 10 inches long
- Beaded cuff
- 5 mil
- Available in Large and X-Large



Great For: Veterinary Clinics, Housing Authorities, Parks and Recreation, Schools, Cafeterias

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Clear Vinyl Disposable #4746

Features:

- General Grade
- Powder-free
- 10” long
- 100 per box
- Vinyl
- 4 mil palm thickness
- Available in Large



Great For: Nursing Homes, Hospitals (Non-medical applications), Correctional Institutions, Veterinary Clinics, Hotels, Schools

GLOVES – CHEMICAL RESISTANCE

Chemical Resistant Gloves

18” Fully Coated Black PVC #4367



Features:

- Interlocked lined
- Single dipped PVC
- Smooth texture provides good grip in dry environments
- Cotton lining for comfort
- Gauntlet cuff for wrist and forearm protection
- Repels liquids
- Sanitized® and treated
- Available in Large

Great For: Auto Supply, Body Shop

Orange Foam Lined PVC #4707



Features:

- Fully coated, single-dip fluorescent orange PVC
- Foam insulated
- Smooth grip
- Sanitized® Treated
- Available in Large

Great For: Auto Supply, Body Shop, Trucking/Fleets, Oil, Petroleum Service, Petroleum Storage, Petroleum Transport

GLOVES – FLOCK LINED

Flock-Lined Gloves in Nitrile and Latex Materials

Flock Lined Nitrile #4713

Features:

- 13” long
- Diamond embossed grip
- Gauntlet cuff protects forearms
- 15 mil
- Available in Large and X-Large

Great For: Golf Courses, Schools, Correctional Institutions



GLOVES – INSULATED

Coated and Insulated Gloves for Warmth in Cold Environments

Insulated Rubber Dipped #4372

Features:

- Economic design helps prevent hand fatigue
- Premium heavyweight coated string knit shell
- Brushed acrylic for added warmth
- Textured latex palm for grip and extra wear
- Flexible knit wrists
- Available in Medium, Large and X-Large

Great For: Refrigeration



Premium Insulated Gloves #4371

Features:

- ANSI/ISEA 105-2016 – CUT A2 | ABRASION 3 | PUNCTURE 2
- EN388: 2016 – 3231X & EN511: 2006 – X2X
- HPT full dipped coating
- Outer Liner: 15 Gauge Nylon
- Inner Liner: 7 Gauge Acrylic
- Cuff: Nylon + Acrylic + Latex Elastic
- Contact cold protection
- Water-resistant
- Coating remains soft in extreme low temperatures
- Treated to control bacteria and odor
- Available in Medium, Large, X-Large, 2X-Large



Great For: Refrigeration, Utilities, Food Processing, Commercial Fishing, Construction, Outdoor Activities

GLOVES – MISCELLANEOUS

Poly/Cotton Bleached White String Knit #4377

Features:

- Reversible for extended wear
- Seamless design provides a close, comfortable fit
- Wear alone or as a glove liner for added protection
- Comfortable knit wrist
- Regular weight, bleached, 80% polyester, 20% cotton
- Available in Large

Great For: Poultry, Food Processing



GLOVES – LEATHER

Full Leather and Leather Palm Gloves

Leather Driving/Work #4136



Features:

- Made with grain cowhide leather
- Keystone thumb for maximum mobility and comfort
- Color coded, open cuff with shirred elastic back for a secure fit
- Double stitched index finger for strength
- Good abrasion resistance
- Gunn cut design
- Use for general purpose applications
- Available in Large, X-Large and 2X-Large

Great For: Auto Supply/Body Shop, Trucking/Fleets, DOT, Railway/Transit, Municipalities, Paper Mills, Wastewater, Parks and Recreation, Oil Petroleum Service, Petroleum Storage, Petroleum Transport, Ports, Housing Authorities, Gas and Electric

Double Leather Palm with Orange Safety Cuff #4364



Features:

- Double split cowhide leather palm
- Wing thumb for comfort and mobility
- Inside-sewn with cut resistant Aramid thread
- Shirred elastic back for secure fit
- Heavy knuckle strap and reinforced fingertips
- Safety orange color provides added visibility
- Use for high abrasion and puncture resistance
- Gunn cut design
- Rubberized safety cuff
- Available in Large

Great For: Railway/Transit, Paper Mills, Waste Disposal, Recycling

Safety Cuff Leather Palm #4712



Features:

- Split cowhide leather palm
- Wing thumb for comfort and mobility
- Breathable cotton back for ventilation
- Shirred elastic back for a secure fit
- Rubberized safety cuff
- Good abrasion resistance
- Gunn cut design
- Available in Large

Great For: Housing Authorities, Parks and Recreation, Equipment Rental, Wastewater, Gas and Electric, Municipalities/Ports, Railway/Transit, Paper Mills, Waste Disposal/Recycling, DOT

Hi-Vis Mesh Back Leather Palm #413450



Features:

- Abrasion resistant genuine leather padded palm
- Hook and loop with TPR wrist closure
- Pull tab for easy On/Off
- Mesh stretch fabric back for comfort and breathability
- Hi-vis back for enhanced visibility
- Silicone printing on fingers holds shape and creates awareness of finger location at all times
- Terry cloth thumb to wipe away sweat and grime
- Palm: Leather
- Back: Nylon + Elastane
- Thumb: Cotton + Polyester
- Closure: Thermoplastic Rubber + Nylon + Polyester
- ANSI/ISEA 105 – CUT A1 | ABRASION 6 | PUNCTURE 4 EN388 – 4121X
- Available in Medium (4134501), Large (4134502), X-Large (4134503) and 2X-Large (4134504)

Great For: Construction, Demolition, Manufacturing, Auto Repair, Landscaping, General Maintenance, Fabricating, Warehousing, Packing

GLOVES – WORK

Range of Work Gloves

Brown Jersey #4756

Features:

- Knit wrist, straight thumb, clute cut
- For use with general maintenance and material handling
- Heavyweight brown poly/cotton blend
- One size fits most

Great For: General Purpose



High Visibility Mechanic #4393

Features:

- ANSI - Cut A5 | Abrasion 6 | Impact 2
- Synthetic leather palm enhances grip in dry and light oil applications while providing dexterity
- Kevlar® fiber liner provides high tensile strength relative to its weight, is inherently cut resistant and will not melt, ignite or conduct electricity
- PVC on palm, thumb crotch and fingertips provides an enhanced grip and extra cut/abrasion resistance
- Silicone grip provides unparalleled grip in wet and oily conditions
- Reinforced thumb crotch for extended glove life, enhanced comfort, increased abrasion resistance and added durability in a high-wear area
- Thermo Plastic Rubber (TPR) back-of-hand impact resistance to knuckles and fingers by dispersing impact force energy away from the bone, without sacrificing dexterity
- Available in Large, X-Large, and 2X-Large



Great For: Handling and Moving Heavy Materials, Maintenance and Repair Operations, Operating Heavy Duty Machinery and Tools

CHEMICAL CHART

The Chemical Resistance Chart is provided as a guide for qualified professionals who recommend, select, specify or otherwise determine the suitability of products for worker safety. As such, the Chemical Resistance Chart is advisory only. The Suitability of a product for a specific application must be determined and tested by the purchaser.

Pro Chem, Inc. assumes no responsibility for the suitability of an end user's selection for a specific application.

Select the coating with the highest rating in the Physical Properties Chart below. Then check the Chemical Resistance Charts.

Key to Chart

E	Excellent	F	Fair
G	Good	P	Poor
–	Insufficient data		
NR	Not recommended		

PRO CHEM®

PHYSICAL PROPERTIES	NITRILE	NATURAL RUBBER	PVC	NEOPRENE
Abrasion	E	G	G	G
Cut Resistance	E	E	P	E
Puncture(snag) Resistance	E	E	G	E
Flexibility	E	E	G	G
Heat Resistance	G	F	P	G
Ozone Resistance	F	P	E	E
Tensile Strength	E	E	F	E
Dry Grip	E	E	E	E
Wet Grip	G	E	E	F

NOTE: Products in these categories vary in capabilities. Laboratory test are necessary for specific recommendations.

CHEMICAL	NITRILE	NATURAL RUBBER	PVC	NEOPRENE
Acetaldehyde	F	F	F	E
Acetic Acid	G	G	G	E
Acetone	P	G	P	G
Acrylonitrile	P	F	P	P
Aluminum Chloride	E	E	E	E
Ammonium Fluoride 40%	E	E	E	E
Ammonium Hydroxide	F	G	E	E
Amyl Acetate	P	F	P	NR
Amyl Alcohol	G	G		E
Aniline	P	P	G	G
Animal Fats	E	P	G	E
Aqua Regia	F	G	G	G
Battery Acid	S	G	E	E
Benzaldehyde	P	F	F	NR
Benzene	F	P	P	NR
Benzyl Alcohol	P	P	–	E
Benzyl Chloride	P	P	–	P
Butane	E	P	P	E
Butyl Acetate	P	P	P	NR
Butyl Alcohol	E	E	G	E
Butyl Cellosolve*	E	E	–	E
Butyraldehyde	P	P	G	–
Calcium Hypochlorite	G	G	–	F
Carbolic Acid	P	P	–	F
Carbon Disulfide	G	NR	NR	NR
Carbon Tetrachloride	G	P	P	NR
Castor Oil	E	E	F	E
Cellosolve* Acetate	F	G	–	F
Cellosolve* Solvent	G	E	–	E
Chlorine (dry)	P	P	–	F
Chlorine (wet)	F	F	–	NR
Chloroacetone	P	P	–	G
Chlorobenzene	P	P	P	NR
Chloroform	P	P	P	NR
Chloronaphthalene	P	NR	NR	NR
Chlorothene* VG	F	NR	P	NR
Chromic Acid	P	P	G	NR
Citric Acid	E	E	E	E
CottonseedOil	E	P	G	G
Creosote	G	P	G	F
Cutting Oil	E	F	F	E
Cyclohexane	E	P	F	NR
Cyclohexanol	G	P	F	E
DiacetoneAlcohol	P	P	P	G
Dibenzyl	P	P	–	NR
Dibutyl Phthalate	P	P	–	F
Diethylamine	F	F	F	P
Di-Isobutyl Ketone	P	G	P	P
Di-Isocyanate	G	P	F	P
Dimethyl Formamide	F	P	P	G
Dimethyl Sulfoxide, DMS O	E	E	F	E
Dioxane	P	P	P	NR
Dyestuff	S	E	E	E
Electroless Copper (MacDermid 9048)	E	E	E	E

CHEMICAL	NITRILE	NATURAL RUBBER	PVC	NEOPRENE
Electroless Nickel (MacDermid V60/61)	E	E	E	E
Epoxy Resins	E	E	E	E
Ethyl Acetate	P	P	P	E
Ethyl Alcohol	E	E	G	E
Ethyl Ether	F	P	P	E
Ethyl Formate	P	P	P	G
Ethylene Dichloride	P	P	P	NR
Ethylene Glycol	E	E	E	E
Ethylene Trichloride	P	P	–	NR
Fluorine	F	F	–	NR
Formaldehyde	F	F	G	E
Formic Acid 90%	F	E	E	E
Freon TF	E	NR	NR	G
Furfural	P	P	P	G
Gasoline	E	P	P	NR
Glycerin	E	E	F	E
Hexane	E	P	F	E
Hydraulic Fluid-Petroleum Base	E	P	G	G
Hydraulic Fluid-Ester Base	P	P	P	NR
Hydrazine 65%	E	G	E	E
Hydrobromic Acid	P	E	–	–
Hydrochloric Acid 38%	G	G	G	E
Hydrochloric Acid 10%	E	E	E	E
Hydrofluoric Acid 48%	F	F	F	E
Hydrogen Peroxide 30%	F	F	F	E
Hydroquinone	F	G	F	E
Insecticides	S	E	E	E
Isobutyl Alcohol	G	E	G	E
Iso-Octane	E	P	P	E
Isopropyl Alcohol	G	E	G	E
Kerosene	E	P	F	E
Lacquer Thinner	G	NR	F	F
Lactic Acid	E	E	G	E
Lard	E	P	–	F
Lauric Acid 36%/EtOH	E	G	F	E
Linoleic Acid	E	P	G	E
Linseed Oil	E	P	F	E
Lubricating Oils (Petroleum)	E	P	–	G
Maleic Acid	P	P	G	E
Methyl Acetate	P	P	–	G
Methyl Alcohol	E	E	E	E
Methyl Bromide	G	F	P	NR
Methyl Cellosolve	F	P	–	E
Methylene Chloride	P	P	P	NR
Methyl Ethyl Ketone (M.E.K.)	P	G	P	P
Methyl Formate	P	P	–	NR
Methyl Isobutyl Ketone	P	F	F	NR
Methylamine	F	F	F	E
Methyl Methacrylate	P	P	F	NR
Mineral Oil	E	P	F	G
Mineral Spirits, Rule 66	E	NR	F	G
Monoethanolamine	P	G	G	E
Morpholine	P	F	G	P
Muriatic Acid	G	G	G	G

CHEMICAL	NITRILE	NATURAL RUBBER	PVC	NEOPRENE
Naphtha	E	P	P	G
Nitric Acid-Concentrated70%	P	P	F	G
Nitric Acid-Diluted 10%	F	F	G	E
Nitric Acid-Red Fuming	P	P	P	NR
Nitric Acid-White Fuming	NR	NR	P	NR
Nitrobenzene	F	P	P	NR
Nitromethane	P	G	P	G
Nitropropane95.5%	NR	E	NR	G
Octyl Alcohol	G	G	F	E
Oleic Acid	F	P	F	E
Olive Oil	E	P	F	G
Oxalic Acid	G	G	G	E
PCB's	F	P	P	–
Paint Remover	G	F	P	F
Palmitic Acid Saturated	G	G	G	E
Pentane	E	P	NR	E
Perchloric Acid 60%	P	P	P	E
Perchloroethylene	F	P	P	NR
Peuta	E	F	E	G
Phenol	P	P	G	E
PhosphoricAcid	G	G	P	E
Pickling Solution	P	P	G	F
Picric Acid	G	G	G	E
Pine Oil	G	P	F	P
Plating Solutions-Chrome	E	G	E	–
PotassiumHydroxide 50%	G	G	E	E
Printing Ink	E	G	F	E
Propane	E	P	F	E
Propyl Acetate	P	P	F	P
Propyl Alcohol	E	E	G	E
Propylene Oxide	P	P	–	NR
Rubber Solvent	E	NR	NR	G
Silicon Etch	NR	NR	F	G
Skydrol 500	P	P	P	NR
Sodium Hydroxide 50%	G	E	E	E
Sodium Hypochlorite	G	G	–	G
Soybean Oil	E	P	–	E
Stearic Acid	G	G	G	G
StoddardSolvent	E	P	F	E
Styrene	P	P	P	NR
Sulfuric Acid (diluted)	G	G	G	G
Sulfuric Acid (conc.) 95%	P	P	F	F
Tannic Acid 65%	E	E	E	E
Tetrahydrofuran	P	P	P	NR
Toluene	F	P	P	NR
Toluene Di-Isocyanate	P	P	P	NR
Trichlorethylene	F	P	P	NR
TriethanolAmine	F	G	G	E
Trinitrotoluene	P	P	F	G
Tung Oil	E	P	F	E
Turbine Oil	G	P	P	G
Turpentine	E	P	F	NR
Vegetable Oil	E	P	F	E
Vinyl Chloride	–	–	–	NR
Xylene	F	P	P	NR

PRO VISION – EYEWEAR

ELITE #4668/4667

- Soft nosepiece for snug fit
- Semi-frame and slim co-injected temple design for lightweight spectacle– 22 gm
- ANSI Z87.1 + rated hardcoated polycarbonate lenses
- Wraparound lens for front and side protection
- Abrasion and chemical resistant
- Superior anti-fog coating
- 99.9% UV protection
- Lens Base: 8 Curve
- Available in blue mirror (466801) and clear (466701)



TITAN #4662

- Comfort-fit, rubber temples prevent eyewear from slipping
- ANSI Z87.1 + rated hardcoated polycarbonate lenses
- Suitable for both working environments and recreational activities
- 99% UVA/B/C protection
- Mirror Lens
- Wrap around style fits all facial sizes
- High-impact and scratch-resistant
- Lens Base: 8 Curve
- Available in black frame/blue mirror (466201)



INTENSE #4665/4666

- Built-in rubber nosepiece
- ANSI Z87.1 + rated hardcoated polycarbonate lenses
- Rubber temple tips
- High-impact and scratch-resistant
- Ventilated, straight-back flexible temples
- 99% UV protection
- Includes black lanyard
- Lens Base: 9 Curve
- Available in orange mirror (466601) and clear (466501)



VISITOR SPECS ANTI-FOG #4663

- Dielectric
- ANSI Z87.1 + rated hardcoated polycarbonate lenses
- Fits over most prescription frames
- High-impact and scratch-resistant
- Temples extend from brow bar to avoid interference with prescription frame temples
- 99% UV protection
- Lens Base: 2.5 Curve



TRANSITIONAL LENS #4669

- Soft nosepiece for snug fit
- Semi-frame and slim co-injected temple design for lightweight spectacle– 22 gm
- ANSI Z87.1 + rated hardcoated polycarbonate lenses
- Wraparound lens for front and side protection
- Abrasion and chemical resistant
- High-impact and scratch-resistant
- Superior anti-fog coating
- 99.9% UV protection
- Transitional lens changes from clear to dark after exposed to direct UV light
- Lens Base: 8 Curve



PRO VISION – EYEWEAR

PROVOQ #466001/466002:

- ANSI Z87.1 + rated hardcoated polycarbonate lenses
- Anti-fog
- Rubber temples provide non-slip comfort
- Ultra-lightweight
- Clear frames with black accents
- Soft nose piece comfortable fit
- Scratch resistant lenses
- 99.9% UVA/B/C protection
- Available in clear (466001) and smoke (466002



ORANGE CRUSH #464301/464302:

- Soft, adjustable, fully customizable PivotEase™ nosepiece
- Bendable, super-flex TPR temple in bright orange for visibility and style
- TempleTouch™ technology provides comfortable grip on sides of the head
- 10 base curve lens for high-impact protection
- Removable, contoured rubber gasket acts as a cradle, helps keep liquids and dust out
- ANSI-approved hardcoated polycarbonate lenses
- N-Fog + coating offers superior protection for a long-lasting, fog-free view in high heat and humidity
- Available in clear (964301) and smoke (964302)
- Optional gray adjustable strap



PINK GRASSHOPPER #4650:

- N-Fog
- EVA foam dust air filter with built in air channels
- Super flex temples
- Designed to fit smaller head sizes
- Fully dielectric
- Black frames with pink accents
- 99.9% UVA, UVB, UVC protection
- Available in clear



READ #4645/4646/4647:

- Extra side protection
- Bifocal
- Clear frames with black accents
- 99.9% UVA, UVB, UVC protection
- Available in 3 strengths: 1.5, 2.0 & 2.5
- Available in clear



INTRUDER CLEAR/TINTED #4133501/4133401:

- ANSI Z87.1 + rated
- Lightweight, frameless protection
- Superior comfort and fit
- Scratch resistant polycarbonate lens provides 99% UVA/B/C protection
- Available in Clear (4133501) & Tinted (4133401)
- **Clear Lens:** General purposes for indoor applications that require impact protection.
- **Gray Lens:** Commonly used in outdoor applications. Offers protection from excessive glare.



PRO VISION – EYEWEAR

EVER-LITE – INFINITY BLUE #4133201:

- ANSI Z87.1 + rated
- Soft nosepiece for snug fit
- Semi-frame & slim co-material temple design for lightweight spectacle – 22 gm
- Offers a clear panoramic view without obstruction
- 8 base wraparound lens provides full front side protection
- Scratch-resistant, polycarbonate lens
- 99.9% UV protection
- 75% Blue Light blocked
- High performing, superior anti-fog coating that is durable enough to withstand repeated cleaning without losing adhesion
- Maximum clarity in the most extreme temperature and humidity conditions, and Layer added to the lens that is abrasion, chemical and UV-resistant
- Commonly used in indoor applications where there is an excessive amount of yellow or sodium vapor light. Offers a high level of contrast.
- Available in infinity blue (4133201)



EVER-LITE – AMBER #4133301:

- ANSI Z87.1 + rated
- Soft nosepiece for snug fit
- Semi-frame & slim co-material temple design for lightweight spectacle – 22 gm
- Offers a clear panoramic view without obstruction
- 8 base wraparound lens provides full front side protection
- Scratch-resistant, polycarbonate lens
- 99.9% UV protection
- 75% Blue Light blocked
- Commonly used in indoor, low light applications. Enhances contrast.
- Available in amber (4133301)



MONTEAGLE – ICE BLUE #4133601:

- ANSI Z87.1 + rated hardcoated polycarbonate lenses
- Co-injected temples for snug, secure fit
- Adjustable rubber nosepiece
- Scratch-resistant
- 99% protection from harmful UV rays
- Gray polycarbonate lens with a double layer of silver and blue mirror coatings
- Commonly used in outdoor applications



SPECTRUM WRAP AROUND SAFETY GLASSES #4264801:

- Meets ANSI/ISEA Z87.1-2020 and certified for CAN/CSA Z94.3- 2020 high impact standards and shields eyes from harmful UV rays
- Adjustable soft rubber nosepiece and nonslip temple grips
- Large wrap-around lens offers an extended field of vision and provides protection against wind, dust and debris
- Anti-fog treated lenses to guarantee fog-free clarity
- Mirrored and beveled lens reduces glare and adds a unique aesthetic appeal



FACE SHIELD COMBO #4644

Goggles & Face Shield in One

Features:

- Goggle/vented FACE SHIELD COMBO
- ANSI Z87.1+ shield with wide 180˚ peripheral vision and face coverage
- ANSI-rated hardcoated polycarbonate lens
- Medium impact protection
- 99.9% UV protection for outdoor wear
- 25 mm elastic headband with easy comfort adjustment
- Goggle rated D3 for droplet and splash protection
- Reverse venting for added comfort
- Soft rubber seals around the nose, eyes and brow
- Roomy OTG (over the glasses) design – fits over most prescription glasses
- Does not contain silicone; ideal for paint booths in which silicone is often the cause of paint contamination
- Goggle with N-FOG™ antifog protection exceeds the European EN 166/168 standard by 15x
- Tinted lenses provide protection from ultra violet rays only and are not to be worn in welding environments
- Available in clear (#464401) and tinted (#464402)



Description:

FACE SHIELD COMBO #4644 is ideal for construction, water departments, grinding, you name it. If the application calls for a face shield, this is the one: the coolest, best-fitting, most fog-free product on the market. Since the impact shield is integral to the to the ANSI-rated splash goggle, the shield goes where your head goes — unlike other configurations in which the face shield attaches to the hard hat, causing the shield to bump the chin when looking down.

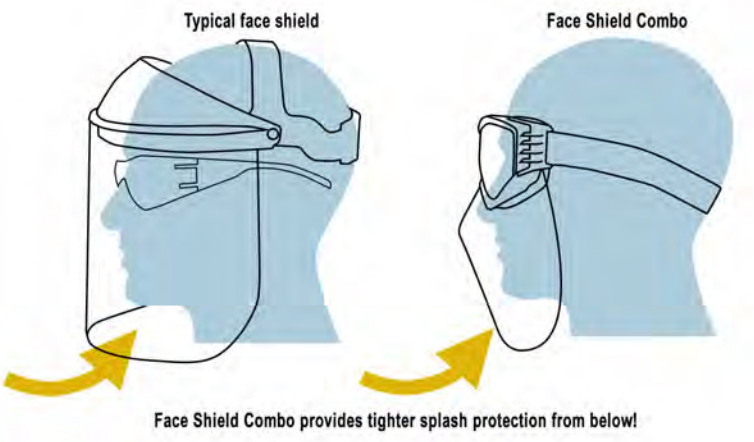
FACE SHIELD COMBO #4644 lenses are made of polycarbonate that provides 99.9% UVA/UVB/UVC protection to help prevent eye damage. The low-profile curved face shield design conforms to the shape of the face, providing compact protection (9.5 x 10.5 x 9.1 inches). At a mere 9.6 ounces, The FACE SHIELD COMBO is easy to work in — and light enough to play in

Certifications and Characteristics:

Excellent anti-fog protection plus abrasion, chemical, and UV resistance. Meets demanding industry test requirements (ANSI Z87.1+, EN166K, EN166N, EN166UV). Meets or exceeds AS/NZS 1337.1:2010 for eye and face protection.

This mask features proprietary N-FOG™ anti-fog coating. Eyewear featuring N-FOG is tested under the most stringent anti-fog standard in the world, the European EN 166/168 standard and EXCEEDS the standard. N-FOG's anti-fog properties last 15X longer than the minimum set forth by the standard.

In addition to impact standards, the face shield combo carries a D3 rating for droplet and splash protection.



For Use By:

- Construction Companies
- Laboratories
- Steel Mills
- Grinding
- Municipalities
- Auto Body Shops
- Manufacturing Plants
- Wastewater Treatment Facilities
- Water Departments

HINGED FACE SHIELD COMBO #4642

Goggles & Face Shield in One

Features:

- 99% UVA/B/C protection
- Antifog lens
- Goggles passes D3: Droplet and Splash Test
- Hinged shield provides full face protection
- Adjustable elastic band and ratchet shield
- Fits over prescription glasses
- Soft vinyl goggle body conforms to facial contours
- Scratch resistant polycarbonate lens
- Removable vent caps
- Four ventilation holes provide airflow
- Polycarbonate shield offers increased impact and dust protection
- Z87+ANSI rated for standard eye and face protection
- Available in clear (#464201) and tinted (#464202)



Description:

This HINGED FACE SHIELD COMBO is specially designed for the user's protection and comfort. The ratchet FACE SHIELD is hinged so the wearer can swing it up when not needed and quickly put it back over their face when it is. With its D3 Droplet and Splash test rating, it provides paramount protection. Its removable vents can be taken out or reinserted for safety when chemical splashes are a possibility. Its soft body and adjustable strap make it very comfortable for long-term wearing. It opens to three positions, fits over prescription glasses and has four vents for airflow.

For Use By:

- Construction Companies
- Laboratories
- Steel Mills
- Grinding
- Municipalities
- Auto Body Shops
- Manufacturing Plants
- Wastewater Treatment Facilities
- Water Departments

MINI-TAC PRO #445201

Personal Tactical Light

Features:

- Flashlight or strobe light
- Momentary or constant on
- Three brightness levels and strobe
- 50,000+ hours LED life
- Sharp, focused beam for distance work
- Aircraft-grade 6061-T6 aluminum
- Type III hard anodized finish
- Non-slip grip
- Waterproof
- Impact and chemical resistant
- Meets the requirements of NFPA-1971-8.6 (2013)
- Powered by 2 AA batteries



Description:

The MINI-TAC PRO uses a CREE LED rated at 200 lumens with a high-efficiency deep parabolic reflector. The reflector creates a tight, long beam for distance illumination. It can be used as a flashlight or a strobe light. The rugged tail switch makes changing the setting easy and provides momentary or constant-on function along with three brightness settings and a disorientating strobe. This light also comes with a removable pocket clip.



Specifications:

- Lumens:
  - High 200
  - Medium 90
  - Low 45
- Run Time:
  - 1 hour 30 minutes for high
  - 4 hours for medium
  - 6 hours for low
- Single tail cap switch
- Drop Rating: 2 meters
- Dimensions
  - Length: 6 inches (152 mm)
  - Weight: 3.2 ounces (91 g)
  - Handle Diameter: 0.6 inches (15 mm)
  - Head Diameter: 0.9 inches (23 mm)



Applications:

- Industrial
- Military
- Automotive
- Law Enforcement
- Public Safety
- Utilities

ADJUSTABLE BEAM WORK LIGHT W/HOLSTER #4481

Adjustable Beam Flashlight

Features:

- IP-X7 Waterproof
- 50,000+ hours LED life
- TIR Lens
- Momentary or constant-on
- Impact & chemical resistant
- Durable switch – textured rubber switch for reliable use
- Aircraft-grade aluminum – textured non-slip grip for a secure hold
- Adjustable-focus – rotate the bezel for a wide or tight focused beam
- Powered by 2 AA Batteries (included)
- Cordura belt holster (included)



Description:

The ADJUSTABLE BEAM WORK LIGHT Flashlight with Cordura belt holster uses an LED rated at 275 lumens that works in conjunction with a TIR lens to create a usable beam distance of 109 meters. This compact flashlight features either momentary or constant-on functionality and has a rotating bezel ring that allows the user to adjust the focus of the beam. The housing and tail-cap are made from aircraft-grade 6061-T6 aluminum and have a Type II hard anodized finish.



Specifications:

- Lumens: 275
- Run Time: 2 hours 45 minutes
- Light Source: Cree® LED. Impervious to shock with a 50,000 hour lifetime
- Light Output: Flashlight - 275 lumens
- On/Off Single Tail Cap Switch - Momentary or Constant-on Flashlight
- Drop Rating: 2 meters
- Certifications: CE
- Case Material: Aircraft-grade 6061-T6 aluminum w/type II hard anodized finish
- Candela: 3,003
- Beam Distance: 109 meters
- Water Rating: IP-X7 Waterproof
- Dimensions:
  - Length: 5.8 in (147 mm)
  - Weight: 4.8 oz (140 g)
  - Handle Diameter: 0.88 in (22 mm)
  - Head Diameter: 1 in (26 mm)



Applications:

- Industrial
- Public Safety
- Automotive
- Military
- Sporting Goods
- Utilities

DUAL LIGHT W/ DUAL MAGNETS #445101

Dual Light Flashlight with Dual Magnets

Features:

- LED technology
- Flashlight/Floodlight/Dual-Light™
- Momentary or constant-on flashlight
- Sharp focused flashlight beam for distance illumination
- High-efficiency deep parabolic reflector
- Effective beam distance of 181 meters (over 593 feet)
- Unfocused wide-beam floodlight for close-up illumination
- Dual-Light (flashlight & floodlight on at the same time) for maximum versatility
- Powerful integrated magnets built into the base and pocket clip for multiple hands-free options
- Engineered polymer housing
- Non-slip grip
- Dual body switches
- IP-X7 Waterproof
- Impact & chemical resistant
- Built-in pocket/belt clip
- Includes removable lanyard
- 3 AA batteries (included)



Description:

This rugged DUAL LIGHT uses a LED rated at 130 lumens with a high-efficiency deep parabolic reflector. It can be used as a flashlight or a floodlight, depending on what your needs are. The flashlight is activated by the top body switch and provides momentary or constant-on function while the floodlight is operated by the bottom button. It has multiple hands-free options since it has two built-in magnets and also comes with a lanyard. It contains a pocket/belt clip to free up your hands even more.



Specifications:

- Lumens: Flashlight 130, Floodlight 110, Dual-Light 235
- Run Time: 9.5 hours for flashlight, 10.5 hours for floodlight, & 5 hours for dual light
- Rated IP-X7 waterproof
- Drop Rating: 2 meters
- Effective Range: 181 meters
- Light Source: LED
- High Candela: 8,150
- Dimensions:
  - Length: 7 inches (178 mm)
  - Weight 6.4 ounces (181 g)
  - Handle Diameter: 1.3 x 1 inch (33 x 25 mm)
  - Head Diameter: 1.8 inches (46 mm)



Applications:

- Industrial
- Military
- Automotive
- Law Enforcement
- Public Safety
- Utilities

USB RECHARGEABLE 320 LUMENS #4486

Waterproof Light

Features:

- LED technology
- Momentary or constant-on flashlight
- Sharp focused beam
- Aircraft-grade 6061-T6 aluminum housing with Type III hard anodized finish
- IP-X7 Waterproof
- Chemical, heat and impact resistant
- Meets the requirements for NFPA-1971-8.6 (2013)
- USB cord with rechargeable lithium-ion battery (included)







Description:

The USB rechargeable every-day-carry (EDC) metal flashlight uses an LED rated at 320 lumens for 1.5 hours. At only 4.5 inches long and weighing only 3 oz, this compact flashlight includes a removable deep concealment clip for ease of use in and out of a pocket. Includes both momentary or constant-on functionality. This light features an IP-X7 rated waterproof, chemical, heat, and impact-resistant housing. The sleeved collar discretely opens for direct USB charging. While charging the light turns red and turns green when fully charged. Meets requirements of NFPA-1971-8.6 (2013). Includes a 2-foot USB charging cable and Li-ion rechargeable battery.

Specifications:

- Lumens: 320
- Beam Distance: 111 meters
- Candela: 3,100
- Drop Rating: 2 meters
- Dust/Water Rating: IP-X7 Waterproof
- Flashlight Runtime: 1.5 hours
- Charge Time (h): 4
- Light Source: LED
- Cord Length: 2 ft
- Switch Function: Momentary or constant-on
- Dimensions:
  - Length: 4.5 inches (114 mm)
  - Weight: 3 ounces (85 g)
  - Handle Diameter: 0.8 inches (20 mm)
  - Head Diameter: 1 inch (25 mm)

For Use By:

- Bus Garages
- Fleet Operations
- Military Facilities
- Steel Mills
- Colleges/Universities
- Freight Carriers
- Municipalities
- Utility Companies
- Contractors
- Golf Courses
- Correctional Facilities
- Warehouses
- Factories
- Industrial Plants
- Railroads
- Sewage Plants

DUTY/PERSONAL-DUAL LIGHT #4456

Rechargeable Multi-Function

Features:

- LED technology
- Flashlight/Floodlight/Dual-Light™
- Momentary or constant-on plus 3 brightness levels & strobe
- Sharp focused flashlight beam
- High-efficiency deep parabolic reflector
- Effective beam distance of 304 meters
- Unfocused wide-beam floodlight for close-up illumination
- Dual-Light (flashlight & floodlight at the same time) for maximum safety & versatility
- Aircraft-grade 6061-T6 aluminum housing, tail-cap and bezel w/Type III hard-anodized finish
- Non-slip grip
- Flashlight/strobe – body switch
- Floodlight – second body switch
- Powerful integrated tail cap magnet for hands-free usage
- IP-X7 Waterproof
- Impact & chemical resistant
- Serialized for personal identification
- Lithium-ion rechargeable battery (included)





Description:

This DUTY/PERSONAL DUAL LIGHT uses a LED rated at 650 lumens that works with a high-efficiency deep parabolic reflector to create a usable beam rated 275 meters. It can be used as a flashlight or a floodlight, depending on what your needs are and also has a strobe function. The body and tail switches provide momentary or constant-on functionality and a set of user-selectable high, medium or low-brightness settings. It also has a disorienting strobe setting.



Specifications:

- Lumens: Flashlight high-650, medium-300, low-150, Strobe 300, Floodlight 200, Dual-Light 400
- Run Time: Flashlight high-4.25 hours, medium-9.5 hours, low-18.75 hours, Strobe 6 hours, Floodlight-7.25 hours, Dual-Light: high-7 hours
- Recharge Time: 4 hours (typical)
- Beam Distance: High Beam Distance (m): 304, Medium Beam Distance (m): 212, Low Beam Distance (m): 115
- High Candela: 23,142
- Medium Candela: 11,302
- Low Candela: 6,028
- Water rated IP-X7 waterproof
- Drop Rating: 2 meters
- Dimensions:
  - Length: 9.5 inches (241 mm)
  - Weight: 13.2 ounces (347 g)
  - Handle Diameter: 1.2 inches (30 mm)
  - Head Diameter: 1.6 inches (41 mm)



Applications:

- Industrial
- Military
- Automotive
- Law Enforcement
- Public Safety
- Utilities

DUAL LIGHT DUAL MAGNET - GREEN #448301

Dual Light Flashlight with Dual Magnets

Features:

- Dual-Light (flashlight & floodlight at same time) for maximum safety and versatility
- 50,000+ hours LED technology
- Bright, green color
- Momentary or constant-on
- Sharp, focused beam for distance work
- Unfocused, wide-beam floodlight for close-up work
- IP-X7 Waterproof
- Impact and chemical resistant
- Powerful magnets integrated into base and a clip for hands-free use
- Non-slip grip
- Dual body switches
- Built in belt/pocket clip
- Includes removable lanyard
- 3 AA batteries (included)



Description:

This rugged DUAL LIGHT WITH DUAL MAGNETS can be used as a flashlight, floodlight or dual light depending on what your needs are. Its dual magnets give you multiple hands free options and the belt clip frees up your hands even more.



Specifications:

- Lumens: Flashlight 300, Floodlight 200, Dual Light 350
- Run Time: 6 hours for flashlight, 6 hours for floodlight & 4 hours for dual light
- Candela: High - 10,100
- Beam Distance: 201 meters
- Drop Rating: 2 meters
- Certifications: CE
- Water Rating: IP-X7 waterproof
- Length: 7 inches
- Weight 6.4 ounces (181 g)
- Handle Diameter: 1.3 x 1 inch
- Head Diameter: 1.8 inches



For Use By:

- Bus Garages
- Fleet Operations
- Military Facilities
- Steel Mills
- Colleges/Universities
- Freight Carriers
- Municipalities
- Utility Companies
- Contractors
- Golf Courses
- Correctional Facilities
- Warehouses
- Factories
- Industrial Plants
- Railroads
- Sewage Plants

LIGHT WITH LASER #4129201

Intrinsically Safe Flashlight with Laser

Features:

- Sharp focused flashlight beam for distance illumination (up to 187 m)
- cETLus listed Intrinsically Safe for use in hazardous locations where explosive gases and dusts may be present
- Flashlight – Laser
- LED technology
- Momentary or constant-on flashlight
- Class 3R green laser pointer
- Class 1, Division 1
- Non-slip grip
- IP-67 Dust/Waterproof
- Impact & chemical resistant
- Dual body switches
- Built-in pocket/belt clip
- Engineered polymer housing
- Includes removable lanyard
- Powered by 3 AA Batteries (not included)





Description:

This flashlight is cETLus listed Intrinsically Safe for use in hazardous locations where explosive gases and dust may be present. The LIGHT WITH LASER uses an LED rated at 210 lumens that work in conjunction with a high-efficiency deep parabolic reflector to create a usable flashlight beam rated at 187 meters. During inspections or training the Class 3R laser provides precise attention to a specific area. Additionally, both the flashlight and the laser can be turned on at the same time for maximum versatility. The two body switches provide momentary or constant-on functionality for the flashlight and on/off functionality for the laser.

Specifications:

- Drop Rating: 2 meters
- Lumens/Runtimes:
  - Flashlight -210L, 16 hrs. runtime
- Case Material: Engineered polymer
- Candela: 7,970
- Beam Distance: 187 m
- Water Rating: ANSI IP-67 dustproof / waterproof
- Dimensions
  - Length: 7.0 in (178 mm)
  - Handle Diameter: 1.1 in x 1.5 in (28 mm x 38 mm)
  - Head Diameter: 1.8 in (46 mm
  - Weight: 7.6 oz (215 g)



Applications:

- Industrial
- Public Safety
- Automotive
- Military
- Hazardous Work Environments
- Utilities

INTRINSICALLY SAFE PERMISSIBLE #445301

Dual Light With Dual Magnet

Features:

- ETLus and MSHA listed Intrinsically Safe Permissible
- Flashlight – Floodlight – Dual-Light
- LED technology
- Momentary or constant-on flashlight
- Sharp focused flashlight beam for distance illumination
- Unfocused wide-beam floodlight for close-up illumination
- Dual-light (flashlight and floodlight at same time) for maximum versatility IP-67 Waterproof
- Impact and chemical resistant
- Powerful integrated magnets built into the base and pocket clip for multiple hands-free options
- Engineered polymer housing
- Non-slip grip
- Dual body switches
- Built-in pocket/belt clip
- Includes removable lanyard
- 3 AA batteries (not included)





Description:

INSTRINSICALLY SAFE PERMISSABLE FLASHLIGHT is ETLus and MSHA listed Intrinsically Safe Permissible. It uses an LED rated at 160 lumens that work in conjunction with a high-efficiency deep parabolic reflector to create a usable flashlight beam rated at 170 meters. A 130 lumens unfocused floodlight is integrated into the housing which is perfect for close-up illumination.

Additionally, both the flashlight and the floodlight can be turned on at the same time for maximum versatility at 260 lumens. The dual body switches provide momentary or constant-on functionality for the flashlight and on/off functionality for the floodlight. Additionally, the integrated magnets located in the base of the handle and the pocket clip, provide for almost limitless hands-free usage.



Specifications:

- High Lumens: 160
- Floodlight Lumens: 130
- High DL Lumens: 260
- High Beam Distance (m): 170
- High Candela: 7,250
- Drop Rating: 2 m
- Water Rating: IP-67 Dustproof/Waterproof
- High Runtime (h): 19
- High Flood Runtime (h): 19
- High Dual-Light Runtime (h): 4.5
- Floodlight Color: White
- Switch Function: Dual Body Switch - Momentary or Constant-on Flashlight, Constant-on Floodlight
- Light Source: LED
- Case Material: Engineered Polymer
- Dimensions:
  - Length: 7.0 in (178 mm)
  - Weight: 6.9 oz (196 g)
  - Handle Diameter: 1.1 x 1.5 in (28 x 38 mm)
  - Head Diameter: 1.8 in (46 mm)



Applications:

- Industrial
- Military
- Automotive
- Law Enforcement
- Public Safety
- Utilities

INTRINSICALLY SAFE WORK LIGHT #4484

Light with Multi-Angle Mount

Features:

- cETLus, ATEX, IECEx and INMETRO-certified Intrinsically Safe for use in both above and below ground hazardous locations where explosive gases and dusts may be present
- LED technology
- Momentary or constant-on flashlight
- Sharp focused flashlight beam for distance illumination
- Dustproof / Waterproof
- Impact & chemical resistant
- Meets Requirements of NFPA-1971-8.6 (2013)
- Polymer housing
- Non-slip grip
- Tail switch
- Mount can be attached to either side of helmet
- Mount allows for clearance around face shields, goggles or other helmet-mounted equipment
- 3 AA batteries (not included)





Description:

This flashlight is cETLus, ATEX Zone 0, IECEx and INMETRO listed Intrinsically Safe for use in both above and below ground hazardous locations where explosive gases and dust may be present. This light uses an LED rated at 200 lumens that works with a deep parabolic reflector to create a 143 meter flashlight beam. The tail switch provides momentary or constant-on functionality.

Meets the requirements of NFPA-1971-8.6 (2013). The mount can be attached to either side of the helmet to provide hands-free illumination. Set the light in a precise location with the 140 degree adjustment mount to provide clearance around face shields, goggles or other helmet-mounted equipment.



Specifications:

- High Lumens: 200
- High Beam Distance (m): 143
- High Candela: 5,129
- Drop Rating: 2 m
- Water Rating: IP-67 Dustproof/Waterproof
- High Runtime (h): 10.5
- Switch Function: Single Body Switch - Momentary or Constant-on Flashlight
- Light Source: LED
- Case Material: Engineered Polymer
- Dimensions:
  - Length: 5.6 inches (142 mm)
  - Weight: 5.4 ounces (143 g)
  - Handle Diameter: 0.75 x 1.4 inches (19 mm x 35 mm)
  - Head Diameter: 1.5 inch (38 mm)



For Use By:

- Bus Garages
- Fleet Operations
- Military Facilities
- Steel Mills
- Colleges/Universities
- Freight Carriers
- Municipalities
- Utility Companies
- Contractors
- Golf Courses
- Correctional Facilities
- Warehouses
- Factories
- Industrial Plants
- Railroads
- Sewage Plants

MULTIPURPOSE LED WORK LIGHT #445401

Rechargeable Work Light

Features:

- Dual-brightness Floodlight – 600/225 Lumens
- Three heavy-duty integrated magnets, one at the tip of the light, one at the mid-point of the body and one built into the base for multiple hands-free uses
- Magnetic hook can be attached to either the body or tip magnets and can be rotated 360 degrees for even more hands-free versatility
- Octagonal body design keeps the light in place when laid on its side
- Flat bottom design allows the light to stand up
- User-replaceable lens
- IP-X4 Water Resistant
- Impact & chemical resistant
- Integrated Lithium-ion battery (included)
- Includes both AC & DC power supply/charger



Description:

MULTIPURPOSE LED WORK LIGHT is all about super-bright hands-free lighting. The floodlight has two brightness modes, high at 600 lumens and low at 225. The single push button body switch located on the handle controls all lighting modes.

This light has three heavy-duty magnets built into the light, one at the tip one at the mid-point of the body, and one built into the base for multiple hands-free uses. The flat-bottom design of the handle means the light will stand up on most flat surfaces, and the octagonal shape of the handle keeps the floodlight aimed in the correct direction when you lay the light on its side.



Further adding to the work light's hands-free features is the detachable magnetic hook. It can be attached to either the body or tip magnets and can be rotated 360 degrees for even more hands-free versatility. The integrated Lithium-ion battery can be recharged with the included AC or DC power supply/charger.

Specifications:

- High Floodlight Lumens: 600; low floodlight lumens: 225
- High Floodlight Runtime: 4.5 hours; low floodlight runtime: 12.5 hours
- Charge Time: 6 hours (typical)
- Water Rating: IP-X4 Water-resistant
- Charge Time (h): 6
- Switch Function: Single Body Switch - High / Low / Off
- Light Source: LED
- Drop Rating: 2 meters
- Case Material: Glass-filled Nylon Polymer
- Dimensions:
  - Length: 14.6 inches (371 mm)
  - Width: 2 inches (51 mm)
  - Weight 12.2 ounces (347 g)





Applications:

- Industrial
- Military
- Automotive
- Law Enforcement
- Public Safety
- Utilities

DUAL LIGHT CREE LED - ORANGE #4482

Dual Light

Features:

- Flashlight, floodlight, dual light
- Focused flashlight beam for distance illumination
- Unfocused wide-beam floodlight for close-up illumination
- CREE LED technology – 50,000+ hours LED
- Water resistant
- Engineered polymer housing with soft-touch finish
- Chemical, heat and impact resistant polymer housing
- Dual body switches
- Non-slip grip
- 2 AAA batteries (included)



Specifications:

- Flashlight Lumens: 100
- Floodlight Lumens: 50
- Dual Light Lumens: 115
- Beam Distance: 60 meters
- Candela: 915
- Drop Rating: 2 meters
- Dust/Water Rating: IP-X4 Water-resistant
- Flashlight Runtime: 4.75 hours
- Floodlight Runtime: 5.75 hours
- Dual Light Runtime: 2.25 hours
- Floodlight Color: White
- Switch Function: Top Body Switch: Flashlight: Bottom Body Switch: Floodlight
- Length: 5.3 inches
- Weight: 2.2 ounces
- Handle Diameter: 1.2 x 0.8 inches
- Light Source: LED
- Case Material: ABS
- Body Color: Orange



Description:

This DUAL LIGHT has two body switches offering the user a choice of flashlight, floodlight or dual-light operation. Its compact design makes it convenient to use and carry. The housing is made from engineered polymer and has a soft-touch finish.

For Use By:

- Bus Garages
- Fleet Operations
- Military Facilities
- Steel Mills
- Colleges/Universities
- Freight Carriers
- Municipalities
- Utility Companies
- Contractors
- Golf Courses
- Correctional Facilities
- Warehouses
- Factories
- Industrial Plants
- Railroads
- Sewage Plants

LED Single Fixture Work Light #445501

Portable High Powered Lamp



Features:

- Single light fixture
- 50,000+ hours LED life
- Powerful, magnetic base
- Multi-angle tilt & swivel fixture
- Multi-fin heat sink keeps light cool to the touch
- Comfort-grip, padded handle
- Tempered glass lens
- Powder coated for long wear
- Impact, chemical and water-resistant
- Limited 1-year warranty

Specifications:

- Lumens: Floodlight 2,200
- Case Material: Aluminum
- Cord Length: 12 ft
- Cord Gauge: 18/3
- Power Source: AC
- Switch Function: Single seated push button
- Length: 11.5 inches (292 mm)
- Width: 6.2 inches (157 mm)
- Depth: 3.1 inches (79 mm)
- Weight 3.2 pounds

Description:

This LED WORK LIGHT is perfect for portable lighting of small areas. This light gives off 2,200 lumens of light from a single long-life LED. The heat fins keep the housing cool for easy handling and the magnetic, swivel/tilt base allows the light to be directed exactly where it needs to be.

Warning: When using outdoor lights, basic safety precautions should always be followed to reduce the risk of fire, electrical shock, and personal injury, including the following:

- Not intended for use in wet areas
- Keep plugs and receptacles dry
- Use only 3-wire outdoor extension cords 16 AWG or larger that have 3-prong grounding plug
- DO NOT use with extension cord near water
- For use only on GFCI protected circui8ts
- DO NOT use this work light with a 2-wire extension cord

Applications:

- Industrial
- Military
- Automotive
- Law Enforcement
- Public Safety
- Utilities

RECHARGEABLE AREA LIGHT #4458

LED Area Light with Magnetic Base

Features:

- High/low brightness modes
- Constructed from lightweight 6061-T6 aluminum
- Multi-angle tilt and swivel fixture design
- Powerful magnetic base for hands-free operation
- Multi-fin heat sink keeps light cool to the touch
- Adjustable comfort-grip handle
- Single sealed push button switch
- Tempered glass lens
- Powder coated for long wear
- Impact and chemical resistant design
- Meets requirements of NFPA-1971-8.6 (2013)
- Rechargeable lithium ion battery
- Includes AC and DC power supplies
- Limited 1-year warranty



Specifications:

- High floodlight lumens – 1,000
- Low floodlight lumens – 500
- High floodlight run time – 4 hours
- Low floodlight run time – 8 hours
- LED is rated at 50,000 hours of life
- Water Rating: IP-X7 waterproof
- Drop Rating: 2 meters
- Length: 6.1 in (155 mm) x 3.5 in (89 mm) wide, 12 in (305 mm) high
- Weight: 58.2 oz (1,496 g)

Description:

The RECHARGEABLE AREA LIGHT with magnetic base is perfect when portability is important. It gives off 1,000 lumens of light on high and 500 lumens on low using a sealed push button switch. It can be swiveled independently allowing the user to position the fixture exactly where the light is needed. The heavy-duty magnetic base allows the light to be attached to most metal surfaces for hands-free operation. Included with the LIGHT are an adjustable handle and AC and DC power supplies.

RECHARGEABLE AREA LIGHT KIT #4459

Description:

This RECHARGEABLE AREA LIGHT is also available as KIT. The KIT is perfect when portability is important. It includes the AREA LIGHT, an adjustable tripod with camlock adjusters, AC/DC power supplies and a carrying case.



Applications:

- Industrial
- Law Enforcement
- Automotive
- Military
- Public Safety
- Utilities

Directions:

Turning the light on high mode: Press and release the button one time.

Turning the light on low mode: Press and release the button a second time.

Turning the light off: Press and release the button a third time.

- Not for use in hazardous locations
- Do NOT cover or place next to any flammable materials while in use
- Do not store battery with metallic objects
- Do NOT use this light in the proximity of vehicles or equipment when there is a risk of flammable liquids coming into contact with the light
- Do not leave battery in direct sunlight
- Do NOT allow the battery to get wet

MULTIFUNCTION HEADLAMP #445701

Flashlight/Floodlight Headlamp

Features:

- LED technology
- High/low-brightness spotlight – high/low-brightness floodlight – Dual-Light™
- Focused spotlight beam for distance illumination
- Unfocused wide-beam floodlight for close-up illumination
- Dual-light (any spotlight & floodlight mode at same time) for maximum versatility
- Waterproof
- Impact & chemical resistant
- Engineered polymer housing
- Dual switches located on top of light
- Adjustable ratchet tilt head
- Non-slip elastic head strap
- 3 AAA batteries (included)







Description:

This MULTIFUNCTION HEADLAMP has a multi-position tilt head design and includes an elastic head strap with a non-slip lining. This headlamp combines a tight-beam long-throw spotlight, with a wide-beam close area floodlight. Rated at 180 & 100 lumens respectively, the high and low-brightness spotlight beams on this headlamp are designed for distance illumination.

This headlamp also has two wide-beam floodlight settings rated at 140 & 80 lumens. The floodlight spreads out in a wide even pattern of light expressly for the purpose of providing illumination of areas that are close by. Additionally, any combination of spotlight & floodlight settings can be selected simultaneously for even greater functionality. The top-mounted dual switches provide high/low-brightness spotlight and high/low-brightness floodlight.



Specifications:

- Lumens: high spotlight 180, low spotlight 100, high floodlight 140, low floodlight 80, high dual-light 220, low dual-light 115
- Run Time: High spotlight-5 hours, low spotlight-14 hours, high floodlight 5 hours, low floodlight-14 hours, high dual-light-5 hours, low dual-light 7 hours
- Beam Distance: 82 meters
- Water Rating: IP-X7 Waterproof
- High Beam Distance (m): 158
- Medium Beam Distance (m): 115
- High Candela: 1,564
- Low Candela: 821
- Drop Rating: 2 meters
- Light Source: LED
- Dimensions:
  - Width: 2.6 inches (66 mm)
  - Length: 2.1 inches (53 mm)
  - Depth: 1.8 inches (46 mm)
  - Weight: 3.3 ounces (94 g)

Applications:

- Law enforcement
- Industrial
- Search & Rescue
- Automotive
- Aviation
- Utilities

INTRINSICALLY SAFE MULTI-FUNCTION DUAL LIGHT HEADLAMP #4485

Intrinsically Safe & Waterproof

Features:

- cETLus, ATEX, INMETRO, UKCA and IECEx listed Intrinsically Safe
- LED technology
- High/low-brightness spotlight, high/low-brightness floodlight & Dual-Light™
- Focused spotlight beam for distance illumination
- Wide unfocused floodlight beam for close-up illumination
- Engineered polymer housing
- Dual switches located on top of light
- Adjustable ratchet tilt head
- Non-slip elastic head strap
- Heavy-duty rubber strap for hard hat applications
- Waterproof
- Impact & chemical resistant
- 3 AAA alkaline batteries (included)





Description:

This headlamp is cETLus, ATEX Zone 0, INMETRO, UKCA, and IECEx listed Intrinsically Safe. It features a multi-position tilt head design and includes an elastic head strap with a non-slip lining and a heavy-duty rubber head strap for use on a hard hat. The dual, top-mounted switches provide user-selectable high or low-brightness spotlight, high or low-brightness floodlight operation and dual light.



Specifications:

- High Lumens: 115
- Low Lumens: 60
- Floodlight Lumens: 120
- Flood Low Lumens: 60
- High DL Lumens: 160
- High Beam Distance (m): 82
- Medium Beam Distance (m): 60
- High Candela: 1,668
- Low Candela: 882
- Drop Rating: 2 m
- Water Rating: IP-67 Dustproof/Waterproof
- High Runtime (h): 5
- Low Runtime (h): 16.25
- High Flood Runtime (h): 5.25
- Medium Flood Runtime (h): 16.75
- High Dual-Light Runtime (h): 3.5
- Floodlight Color: White
- Switch Function: Dual Switches. High/Low Spotlight, High/Low Floodlight, Dual-Light
- Light Source: LED
- Dimensions:
  - Length: 2.1 inches
  - Width: 2.6 inches
  - Depth: 1.8 inches
  - Weight: 3.3 ounces

For Use By:

- Bus Garages
- Fleet Operations
- Military Facilities
- Steel Mills
- Colleges/Universities
- Freight Carriers
- Municipalities
- Utility Companies
- Contractors
- Golf Courses
- Correctional Facilities
- Warehouses
- Factories
- Industrial Plants
- Railroads
- Sewage Plants

SINGLE BUTTON DUAL-LIGHT HEADLAMP #4129101

Multi-Function Headlamp

Features:

- Dual light – spotlight and floodlight at the same time
- Class 1, Division 1
- IP-67 Dust/Waterproof
- Impact & chemical resistant
- 3M dual lock reclosable fasteners included for zero band helmet application
- Single switch on top of light for simplified control
- Engineered polymer housing
- Non-slip elastic head strap
- Adjustable ratchet tilt head
- Heavy-duty rubber strap for hard hat applications
- cULus listed Intrinsically Safe
- LED technology
- Focused spotlight beam for distance illumination
- Powered by 3 AAA Batteries (included)



Description:

This 220 lumen SINGLE BUTTON DUAL-LIGHT HEADLAMP is cULus listed Intrinsically Safe. The headlamp features a multi-position tilt head design and includes a backplate for an elastic head strap with a non-slip lining or the included heavy-duty rubber head strap. For zero band usage, 3M™ Dual Lock™ reclosable fasteners are also included. The top-mounted switch provides a user-selectable spotlight, floodlight and an exclusive Dual-Light technology providing both the spotlight and the floodlight at the same time.



Specifications:

- Drop Rating: 2 meters
- Lumens/Runtimes:
  - Spotlight Lumens/Runtime: 190L, 5 hrs. runtime
  - Floodlight Lumens/Runtime: 170L, 5 hrs. runtime
  - Dual-Light Lumens/Runtime: 220L, 5 hrs. runtime
- Certifications: cULus
- Case Material: Engineered polymer
- Candela: HIGH: 2705
- Beam Distance: HIGH: 104m
- Dust/Water Rating: ANSI IP-67 dustproof / waterproof
- Dimensions
  - Length: 2.2 in (56 mm)
  - Width: 2.5 in (64 mm)
  - Depth: 2 in (51 mm)
  - Weight: 3.5 oz (99 g)



Applications:

- Industrial
- Public Safety
- Automotive
- Military
- Hazardous Work Environments
- Utilities

USB-BROAD SPECTRUM HEADLAMP #4129401

Multi-Flood USB Headlamp

Features:

- Low/High-brightness wide-beam floodlight
- Red/Green wide-beam floodlight
- IP-X7 Waterproof
- Impact & chemical resistant
- Adjustable ratchet tilt head
- Non-slip elastic head strap
- Engineered polymer housing
- Dual switches located on front of light
- Integrated brim clip
- USB Charge Port
- 3M® Dual Lock™ Helmet Mount (Included)
- Red charging indicator light turns green when fully charged
- Integrated LiPo battery (included) with up to 35 hours of runtime



Description:

The USB-BROAD SPECTRUM HEADLAMP is designed to be a lightweight area flood light with white, green, or red light. The light can be worn alone with the included strap or attached to the brim of a ball cap with the adjustable clip.



The waterproof headlamp is manufactured from rugged engineered polymer and features a multi-color LED. In white light mode, the headlamp is rated at 250 Lumens for 7 hours in high mode and 60 Lumens for up to 35 hours while in low. The red and green light modes run for over 12 hours.

The front-mounted dual switches provide quick access to the different light modes for easy, intuitive operation. With a built-in charge indicator and included USB-C charging cable the integrated LiPo battery supplies power.



Specifications:

- Drop Rating: 2 meters
- Lumens/Runtimes:
  - HIGH: 250L, 7 hrs. runtime
  - LOW: 60L, 35 hrs. runtime
  - Green/Red: 12.5 hrs. runtime
- Certifications: CE, UKCA
- Case Material: Engineered polymer
- Water Rating: IP-X7 Waterproof
- Dimensions:
  - Length: 2.48 in (63 mm)
  - Width: 1.12 in (28 mm)
  - Depth: 1.26 in (32 mm)
  - Weight: 1.8 oz (51 g)



Applications:

- Industrial
- Public Safety
- Automotive
- Fire Rescue
- Sporting Goods
- Security



OSHA®

OCCUPATION SAFETY AND HEALTH ADMINISTRATION

FREE SAFETY AND COMPLIANCE TRAINING

PROVIDED BY PRO CHEM, INC.

Choose from the following OSHA DVD's available to you through your Pro Chem sales representative:

HAZARD COMMUNICATIONS IN INDUSTRIAL FACILITIES



This video introduces you to the Hazard Communication and Globally Harmonized System (GHS) regulations and provides training on the various groups of chemicals found in the industrial environment. Created specifically to assist industrial facilities of all types in complying with federal, state and municipal Hazard Communication regulations, the DVD addresses the major education and training requirements in these chemical hazard laws.

Length: 20 minutes

TO THE POINT ABOUT BACK SAFETY



Workplaces are full of hazards, hazards that can hurt or kill us. One such hazard is the risk of back injury in the workplace. This DVD trains you on the mechanics of how the back operates along with proper lifting techniques and other steps you need to take to prevent back injuries.

Length: 12 minutes

WALKING & WORKING SURFACES



To ensure workers are provided with safe working and traveling surfaces, OSHA recently updated its Walking and Working Surfaces regulation (29 CFR 1910 Subpart D). Employees affected by the regulation must be trained (and retrained) in the nature of fall hazards in the work area, how to recognize them and the procedures to be followed to minimize those hazards. This detailed training video discusses the requirements addressed in the sections of the regulation so supervisors and employees can understand the updated rule and it's day-to-day implications.

Length: 11 minutes

PERSONAL PROTECTIVE EQUIPMENT



Workplaces are expected to be safe and risk free, but sometimes there are hazards that sometimes can't be controlled. That is when you need to use Personal Protective Equipment or PPE. The personal part is important because PPE is specifically selected by employers to be worn by workers to protect them from the hazards of the job. Whether it is eyes, head, feet or hands, this DVD will educate your employees on the importance of PPE and how to select, use and maintain this important equipment.

Length: 12 minutes

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08/2017

ANSI CUT LEVELS & APPLICATIONS

PRO CHEM®

ANSI CUT RESISTANT LEVELS (GRAMS)	APPLICATION BY CUT LEVEL
ASTM ANSI CUT LEVEL A1 — LIGHT CUT HAZARDS (200)	MATERIAL HANDLING, SMALL PARTS ASSEMBLY (SHARP EDGES), PACKAGING, WAREHOUSE, GENERAL PURPOSE, FORESTRY, CONSTRUCTION
ASTM ANSI CUT LEVEL A2 — LIGHT/MEDIUM CUT HAZARDS (500)	MATERIAL HANDLING, SMALL PARTS ASSEMBLY (SHARP EDGES), PACKAGING, WAREHOUSE, GENERAL PURPOSE, FORESTRY, CONSTRUCTION, PULP AND PAPER, AUTOMOTIVE ASSEMBLY
ASTM ANSI CUT LEVEL A3 — LIGHT/MEDIUM CUT HAZARDS (1000)	MATERIAL HANDLING, SMALL PARTS ASSEMBLY (SHARP EDGES), PACKAGING, WAREHOUSE, GENERAL PURPOSE, FORESTRY, CONSTRUCTION, PULP AND PAPER, AUTOMOTIVE ASSEMBLY
ASTM ANSI CUT LEVEL A4 — MEDIUM CUT HAZARDS (1500)	APPLIANCE MANUFACTURING, BOTTLE AND LIGHT GLASS HANDLING, CANNING, DRYWALL WORK, ELECTRICAL, CARPET INSTALLATION, HVAC, PULP AND PAPER, AUTOMOTIVE ASSEMBLY, METAL FABRICATION AND HANDLING, PACKAGING, WAREHOUSE, AEROSPACE INDUSTRY, FOOD PREP/PROCESSING
ASTM ANSI CUT LEVEL A5 — MEDIUM/HEAVY CUT HAZARDS (2200)	METAL STAMPING, METAL RECYCLING, PULP AND PAPER (CHANGING SLITTER BLADES), AUTOMOTIVE ASSEMBLY, METAL FABRICATION, SHARP METAL STAMPINGS, GLASS MANUFACTURING, WINDOW MANUFACTURING, RECYCLING PAINT/SORTING, HVAC, FOOD PREP/PROCESSING, MEAT PROCESSING, AEROSPACE INDUSTRY
ASTM ANSI CUT LEVEL A6 — HIGH CUT HAZARDS (3000)	
ASTM ANSI CUT LEVEL A7 — HIGH CUT HAZARDS (4000)	
ASTM ANSI CUT LEVEL A8 — HIGH CUT HAZARDS (5000)	
ASTM ANSI CUT LEVEL A9 — HIGH CUT HAZARDS (6000)	

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OSHA SAFETY GUIDELINES FOR SAFETY APPAREL

WHAT IS PPE?

PPE is Personal Protection Equipment that will protect the user against health or safety risks at work. It can include items such as safety helmets, gloves, eye protection, high-visibility clothing, safety footwear and safety harnesses. It also includes respiratory protective equipment (RPE).







Hazards exist in every workplace in many different forms. The occupational Safety and Health Administration (OSHA) requires that employers protect their employees from workplace hazards that can cause injury.

Per OSHA standards, when an employer has identified physical and health hazards in the workplace, they are required to provide appropriate Personal Protective Equipment (PPE) for employees. Safety apparel is one of the required safety product categories.

Protective HI-VIS apparel is rated based on the American National Standards Institute, International Safety Equipment Association (ANSI/ISEA) standard 107-2015.

CLASS 1 - Off-Road Use – Provides Added visibility to workers who are not exposed to traffic.

CLASS R2 – Roadway Use – For workers exposed to roadway rights-of-way and temporary traffic control (TTC) zones.

CLASS R3 – Roadway Use – For workers in the highest –risk situations, who need to be visible through a full range of body motions from a minimum distance of 1280 feet, and exposed to very high speed traffic.

ANSI CLASS E- Includes pants, bib overalls, shorts, and gaiters. These garments are not compliant when they are worn alone, though, when combined with Class 2 or Class 3 apparel, the combination satisfies Class 3 requirements.

While Class R2 is appropriate for some roadway personnel, many states, counties, cities, etc. Mandate that employees working on roadways wear Class R3, regardless of their position because it offers the highest visibility.

High risk jobs include:

- Railway Workers
- Utility Workers
- Asphalt Crews
- Concrete Crews
- Dot Workers
- Crane Operations
- County/City/State/Federal Roadway Maintenance
- Survey And Flagging Crews

Pro Chem offers Class 3 safety vests and shirts in multiple sizes.



#4121



#4124

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OSHA REQUIREMENT PPE WORKSHEET

OSHA Standard 29 CFR 1910.1200 Hazard Communications
The purpose of this section is to ensure that the hazards of all chemicals produced or imported are classified, and that information concerning the classified hazards is transmitted to employers and employees. The requirements of this section are intended to be consistent with the provisions of the United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS), Revision 3. The transmittal of information is to be accomplished by means of comprehensive hazard communication programs, which are to include container labeling and other forms of warning, safety data sheets and employee training.

_____SDS Right to Know Center

OSHA Standard 29 CRF 1910.151 Medical services and first aid.
This standard is designed to help with workplace accidents. OSHA Standard 29 CFR 1910.151 requires kits for any employer with 10 or more employees.

_____First Aid kit

OSHA Standard 29 CFR 1910.1030 Bloodborne pathogens.
This standard is designed to help prevent workplace exposure to bloodborne pathogens (not limited to HIV-1 and HBV). Section (B) (3) states where there is occupational exposure, the employer shall provide appropriate Personal Protective Equipment (PPE) to employees who come in contact with blood or bodily fluids.

_____Bloodborne Clean Up Kit

OSHA Standard 29 CRF 1910.95 Ear Protection
This standard requires hearing protection must be available to all workers exposed at or above 85 decibels over an 8 hour period.

_____Ear plugs corded - Pack 100 per box
_____Ear plugs uncorded -Pack 200 per box
_____Ear muffs

OSHA Standard 29 CRF 1910.134 Respiratory Protection
Respirators must meet NIOSH approval for respiratory protection against most dust. To protect from occupational diseases from conditions that are immediately dangerous to life caused by breathing air contaminated with hazardous levels of dusts, fog, fumes, mists, gases, smoke, sprays and vapors.

_____Particulate Respirator #8210 - Pack 20/box
_____Vapor Respirator with canister

OSHA Standard 29 CFR 1910.120 Hazardous Waste Operations and Emergency Response
Clean-up operations required by a governmental body, whether Federal, state local or other involving hazardous substances that are conducted at uncontrolled hazardous waste sites (including, but not limited to, the EPA's National Priority Site List (NPL), state priority site lists, sites recommended for the EPA NPL, and initial investigations of government identified sites which are conducted before the presence or absence of hazardous substances has been ascertained).

_____Gen Purpose Spill Kit
_____Battery Acid Spill Kit

OSHA Standard 29 CRF 1910.120 Hazardous Waste Operations and Emergency Response *Continued*
_____Enviro Sorb Rolls 30” x 150’
_____Hazmat Spill Kit
_____Enviro Sorb Pads 15” x 19” x 3/8”, yellow
_____Enviro Sorb Boom 5” x 10’
_____Enviro Sorb Socks 3” x 46”

OSHA REQUIREMENT PPE WORKSHEET

OSHA Standard 29 CFR 1910.151 Eye Protection

Employees must use appropriate eye or face protection when exposed to hazards from flying particles, molten metal, liquid chemicals, acids, chemical gases or vapors. Side shields are required when there is a hazard from flying objects.

_____Safety glasses gray hard coat
_____Safety glasses clear
_____Safety glasses with readers
_____Face Shield
_____Splash Goggles

OSHA Standard 29 CRF 1910.132(a) Personal Protective Equipment-General requirements.

Protective equipment, including personal protective equipment for eyes, face, head, and extremities, protective clothing, respiratory devices, and protective shields and barriers, shall be provided, used, and maintained in a sanitary and reliable condition wherever it is necessary by reason of hazards of processes or environment, chemical hazards, radiological hazards, or mechanical irritants encountered in a manner capable of causing injury or impairment in the function of any part of the body through absorption, inhalation or physical contact.

_____Disposable Coveralls
_____Tyvek Coveralls
_____Shoe Covers
_____Acid Aprons-battery acid

OSHA Standard 29 CFR 1910.151 Eye/Face Protection

This standard requires facilities for drenching and flushing of eyes or face for any person that may be exposed to corrosive chemicals. Meets ANSI Z358.12004 Safety Standards.

_____Emergency Eye Wash Station

OSHA Standard 29 CFR 1910.138 Hand Protection

Employers shall select and require employees to use appropriate hand protection when employees' hands are exposed to hazards such as those from skin absorption of harmful substances: severe cuts or lacerations: severe abrasions: puncture, chemical burns; thermal burns and harmful temperature extremes.

_____Miscellaneous Gloves
_____Orange Nitrile Gloves XL
_____Orange Nitrile Gloves XXL
_____Long Sleeve, Neoprene Lined

OSHA Standard 29 CFR 1910.106 Storage of Flammable & Combustible Liquids

The primary basis of this standard is the National Fire Protection Association's publication NFPA 30, Flammable and Combustible Liquids Code. 29 CFR 1910.106 applies to the handling, storage, and use of flammable and combustible liquids with a flash point below 200ºF. There are two primary hazards associated with flammable and combustible liquids: explosion and fire. In order to prevent these hazards, this standard addresses the primary concerns of: design and construction, ventilation, ignition sources, and storage.

_____30 gl Flammable Cabinet
_____60 gl Flammable Cabinet

Hazard Communication Standard Labels
SAMPLE LABEL

CODE _____
Product Name_____ } **Product Identifier**

Company Name_____
Street Address_____
City_____ State_____
Postal Code_____Country_____
Emergency Phone Number_____ } **Supplier Identification**

Hazard Pictograms



Signal Word
DANGER

Highly flammable liquid and vapor.
May cause liver and kidney damage. } **Hazard Statements**

Keep container tightly closed. Store in a cool, well-ventilated place that is locked.
Keep away from heat/sparks/open flame. No smoking.
Only use non-sparking tools.
Use explosion-proof electrical equipment.
Take precautionary measures against static discharge.
Ground and bond container and receiving equipment.
Do not breathe vapors.
Wear protective gloves.
Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.
Dispose of in accordance with local, regional, national, international regulations as specified.

In Case of Fire: use dry chemical (BC) or Carbon Dioxide (CO_2) fire extinguisher to extinguish.

First Aid
If exposed call Poison Center.
If on skin (or hair): Take off immediately any contaminated clothing. Rinse skin with water

} **Precautionary Statements**

Supplemental Information

Directions for use
_____
_____

Fill Weight:_____ **Lot Number:**_____
Gross Weight:_____ **Fill Date:**_____
Expiration Date:_____

Etiquetas para la norma sobre la comunicación de peligros
ETIQUETA DE MUESTRA

CÓDIGO _____
Nombre del producto _____ } **Identificación del producto**

Nombre de la empresa _____
Dirección_____
Ciudad_____ **Estado**_____
Código postal_____**País**_____
Número de teléfono de emergencia_____ } **Identificación del proveedor**

Pictogramas de peligro



Palabra de advertencia
PELIGRO

Indicaciones de peligro
Líquido y vapores muy inflamables.
Puede provocar daños al hígado y a los riñones. }

Mantener el contenedor herméticamente cerrado.
Guardar en un lugar fresco, bien ventilado y cerrado bajo llave.
Mantener alejado de fuentes de calor, chispas o llama abierta. No fumar.
Usar sólo con herramientas que no generen chispas.
Usar equipo eléctrico a prueba de explosiones.
Tomar medidas de precaución contra descargas estáticas. Fijar y conectar a tierra el equipo contenedor y receptor.
No respirar los vapores.
Usar guantes protectores.
Abstenerse de comer, beber o fumar cuando se usa este producto.
Lavarse muy bien las manos después de manejar este producto.
Desechar el producto según las especificaciones y los reglamentos locales, regionales, nacionales e internacionales.
En caso de incendio: usar un extintor de polvo químico (tipo BC) o de bióxido de carbono (CO_2).
Primeros auxilios
Si hay exposición a este producto, llamar al Centro de Control de Intoxicaciones.
En caso de contacto con la piel o el cabello: quitarse de inmediato toda la ropa contaminada. Lavarse la piel con agua.

} **Consejos de prudencia**

Información suplementaria

Instrucciones de uso _____
_____

Peso lleno:____ **Número dlote:**_____
Peso bruto:_____
Fecha de llenado:_____
Fecha de caducidad:_____

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HCS Pictograms and Hazards/ Pictogramas y peligros según la HCS

Health Hazard
Peligro para la salud



- Carcinogen
- Mutagenicity
- Reproductive Toxicity
- Respiratory Sensitizer
- Target Organ Toxicity
- Aspiration Toxicity

- Carcinógeno
- Mutagenicidad
- Toxicidad para la reproducción
- Sensibilización respiratoria
- Toxicidad especifica de órganos diana
- Peligro por aspiración

Flame
Llama



- Flammables
- Pyrophorics
- Self-Heating
- Emits Flammable Gas
- Self-Reactives
- Organic Peroxides

- Inflamables
- Pirofóricos
- Calentamiento espontáneo
- Desprenden gases inflamables
- Reaccionan espontánea mente (autorreactivas)
- Peróxidos orgánicos

Exclamation Mark
igno de exclamación



- Irritant (skin and eye)
- Skin Sensitizer
- Acute Toxicity (harmful)
- Narcotic Effects
- Respiratory Tract Irritant
- Hazardous to Ozone Layer (Non-Mandatory)

- Irritante (piel y ojos)
- Sensibilizador cutáneo
- Toxicidad aguda (dañino)
- Efecto narcótico
- Irritante de vías respiratorias
- Peligros para la capa de ozono (no obligatorio)

Gas Cylinder
Botella de gas



- Gases Under Pressure

- Gases a presión

Corrosion
Corrosión



- Skin Corrosion/Burns
- Eye Damage
- Corrosive to Metals

- Corrosión o quemaduras cutáneas
- Lesion ocular
- Corrosivo para los metales

Exploding Bomb
Bomba explotando



- Explosives
- Self-Reactives
- Organic Peroxides

- Explosivos
- Reaccionan espontáneamente (autorreactivas)
- Peróxidos orgánicos

Flame Over Circle
Llama sobre círculo



- Oxidizers

- Comburentes

Environment (Non-Mandatory)
Medio ambiente (No obligatorio)



- Aquatic Toxicity

- Toxicidad acuática

Skull and Crossbones
Calavera y tibias cruzadas



- Acute Toxicity (fatal or toxic)

- Toxicidad aguda (mortal o tóxica)

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