FLOOR FIX #2110507

Quick Set Seamless Epoxy Binder

Features:

- Two component, 100% (+/- 1%) solids, quick setting epoxy seal coat
- Cures in temperatures as low as 50°F and high as 90°F
- Can be applied with brush, roller or serrated squeegee (see mixing & application instructions for details)

Description:

FLOOR FIX is a two component 100% (+/- 1%) solids epoxy seal coat for concrete floors to repair cracks and holes. It can be used either as a coating or filled with paint chips, marble chips and colored sand mixtures to provide an infinite array of color schemes or patterns.

Applications:

- Showrooms
- Restrooms
- Warehouses
- Kitchens
- And other areas where either a medium to high build clear product is needed that has a quick turnaround time.

Product Characteristics:

	Part A	Part B
Appearance & Odor:	Low viscosity liquid – amber clear	Amber clear liquid with amine odor
Boiling Point/Range:	200 to 560°F	399+F
Vapor Pressure:	Not applicable	Not available
Vapor Density (AIR=1):	Not applicable	Not available
Solubility (water):	Negligible	Negligible
Specific Gravity (H20=1):	1.1	1.04
pH:	Not applicable	Not available
Storage:	Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in properly labelled containers. Store locked up.	
Transport Information:		
UN Number:	Not regulated	UN2735
Proper Shipping Name:	Not regulated	Amines, liquid, corrosive, n.o.s., (CONTAINS isophoronediamine, 1,3-benzenedimethanamine)
Class:	Not regulated	8
Packing Group:	Not regulated	III

Chemical Resistance:

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

Directions:

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.

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

Shelf Life: 1 year in unopened containers
Application Temperature: 50-90°F with relative humidity below 85% for best results.
Mix Ratio: 8.75 pounds (.95 gallons) Part A to 4.30 pounds (.50 gallons) Part B (volumes approx.)
Recommended Film Thickness: 10-18 mils
Coverage Per Gallon: 90-160 square feet per gallon @ 10-18 mils
Cure Schedule:
Pot life (150 gram mass) ……... 22-32 minutes @ 70°F
Pot life (1 1/2 gallon volume)……...15-25 minutes @ 70°F
Tack free (dry to touch) ……..…. 4-6 hours @ 70°F
Tack free (dry to touch) ….……..…13-17 hours @ 50°F
Recoat or topcoat …….……..... 6-9 hours @ 70°F
Light foot traffic ……..…… 6-12 hours @ 70°F
Full cure (heavy traffic) ……..…… 2-5 days @ 70°F

Primer: Recommended - clear
Topcoat: Optional: aliphatic urethanes or successive coats in aggregate filled systems, with or without a clear urethane topcoat.

Solids By Weight:
100% (+/- 1%)
Solids By Volume:
100% (+/- 1%)
Volatile Organic Content:
Less than 2 g/l
Colors Available:
Clear
Packaging information:
3 gallon kit (2.9 gallons net approximately)
15 gallon kits (14.5 gallons net approximately)
Mix Ratio:
8.75 pounds (.95 gallons) part A to 4.30 pounds (.50 gallons) part B (volumes approx.)
Shelf Life:
1 year in unopened containers
Finish Characteristics:
Gloss (>80 at 60 degrees @ glossmeter)
Flexural Strength:
8.300 psi @ ASTM D790
Abrasion Resistance:
Taber abrasor CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 18 mg loss
Adhesion:
350 psi @ elcometer (concrete failure, no delamination)
Viscosity:
Mixed= 500-1000 cps (typical)
Dot Classifications:
Part A "Not regulated"
Part B "AMINES, LIQUID, CORROSIVE, N.O.S., 8, UN2735, PGIII"
Hardness:
Shore D= 80
Compressive Strength:
10,500 psi @ ASTM D695- 1/2" x 1/2" bars
Tensile Strength:
6,300 psi @ ASTM D638
Ultimate Elongation:
3.1%
Gardner Variable Impactor:
50 inch pounds direct- passed

Limitations:

*Color stability or gloss may be affected by environmental conditions such as high humidity, chemical exposure or 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. Clear aliphatic urethane topcoats reduce (UV light) color changes.
*Substrate temperatures must be 5°F above dew point.
*For best results, apply with a high quality roller.
*All new concrete must be cured for at least 30 days prior to application.
*Apply a suitable primer before using this product.
*It is best to not expose this product to water until fully cured.
*See reverse side for application instructions.
*Physical properties are typical values and not specifications.
*See reverse side for limitations of our liability and warranty.

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 before using. Continuous storage should be between 60 and 90°F. Low temperatures or temperature fluctuations may cause 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. The plastic sheet testing is also a good method to determine if any hydrostatic pressure problems exist that may later cause disbonding.

3) Product Mixing: This product has a mix ratio of 8.75# Part A to 4.30# Part B. 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 before applying to the primed substrate. This product has a short pot life and quantities mixed should be kept to an amount that can be used in the prescribed time.

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. This product can be used with various colored sand in a broadcast system or other suitable aggregate can be used in conjunction with this product to achieve a variety of color and application patterns. When using as a broadcast binder, always evaluate performance parameters with a test area which is dependent on aggregate size and thickness, prior to application. Contact your representative for details as necessary.

6) Recoat Or Topcoat: If you opt to recoat or topcoat this product, you must first be sure that the coating has tacked off before recoating. 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 coatings and urethanes are compatible for use as a topcoat for this product as well as multiple coats of this product.

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.