

# RAPID SET #2112

## Low Temperature Epoxy Binder



### Features:

- Superior bonding properties
- 100% solids
- Easy to use 2:1 by volume mix ratio
- Cures in temperatures as low as 35°F
- Chemical resistant
- Provides a protective, waterproof coating
- Low viscosity
- High strength
- Moisture tolerant



### Description:

RAPID SET is a low temperature application, two-component structural epoxy. It is designed to be mixed with graded sands for resurfacing at low temperatures (down to 35°F) or for repairs and resurfacing where time is of the essence at higher temperatures. RAPID SET will cure to yield a hard, dense abrasion resistant surface at 35°F.

\*Above 60°F, areas may be opened to traffic in as little as 2 hours after applying.

### Applications:

- Non-skid Floor Surface and Coating
- Resurfacing Refrigerated Areas
- Coating
- Patching

### Product Characteristics:

	Part A	Part B
Physical State/Color:	Not determined	Not available
Odor:	Not determined	Not available
Boiling Point/Range:	Not determined	Not available
Vapor Pressure:	Not determined	Not available
Relative Density:	Not determined	Not available
Flash Point (closed cup):	Not determined	Not available
pH:	Not determined	Not available
Flammability(solid/gas):	Not determined	Not available
Storage:	Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.	
<b>Physical Properties (1:3 mortar)</b>		
Compressive Strength:	10,500 psi (ASTM C-579)	
Tensile Strength:	1,640 psi (ASTM C-307)	
Water Absorption:	<1%(ASTM C-413)	
Shore D Hardness:	85-90-D (ASTM D-2240)	
Flexural Strength:	4,500 psi (ASTM C-580)	
Thermal Coefficient of Expansion:	2.2 x 10 <sup>-5</sup> in/in/°F (ASTM D-696)	
Tensile elongation:	5% (ASTM D-638)	
Viscosity:	300-500 cps	
<b>Transport Information:</b>		
UN Number:	UN1993	Not applicable. Transported in limited quantities
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s. (Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin (number average molecular weight <=700)).	Not applicable
Class:	Not regulated	Not applicable
Packing Group:	III	Not applicable

### Directions:

This epoxy is formulated to be applied when the temperature is cold or at normal temperatures when cure time needs to be greatly reduced. Please note that at higher temperatures the mixture will set up at a much faster rate, and the mixture will have to be applied to the floor very quickly. Concrete must be clean, sound, dry and free of all foreign materials such as oil, grease, paint, sealers, dust, and laitance. This can be accomplished by washing with a commercial grade detergent, sand blasting, water blasting, mechanical scarification and chemical methods such as acid washing.

Mix thoroughly 2 parts by volume of Part A and 1 part by volume of Part B. Prepare the mortar system by adding 3 – 3 ½ gallons of clean, dry sand to each gallon of epoxy mix. Blend the epoxy and sand until the mixture is uniform.

**\*Pot life is 10 minutes at 70°F.** Do not mix more than can be applied in 10 minutes @70°F or 20 minutes @50°F.

**Coverage:** 100-150 sq ft/gal (coating only); 35 sq ft/gal (mortar mix) @ 1/8"

**\*Note:** For all epoxy coatings the standard temperature for application is 75°F. For every 10°C/16°F temperature is raised, reaction is doubled, cutting pot life in half. For every 10° C/16°F temperature is lowered, reaction is cut in half, doubling pot life.

# RAPID SET CONTINUED #2112

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### Estimation Chart Coverage for Coating or Membranes

Thickness of Coating Applied (1,000 mils = 1 inch)	Coverage per US Gallon 100% Solids System
1/4 inch = 250 mils	6.4 square feet
3/16 inch = 187.5 mils	8.5 square feet
1/8 inch = 125 mils	12.8 square feet
100 mils	16.0 square feet
1/16 inch = 62.5 mils	25.5 square feet
50 mils	32.0 square feet
1/32 inch = 31.25 mils	51.0 square feet
20 mils	80.0 square feet
1/64 inch = 15.625 mils	102.0 square feet
10 mils	160.0 square feet
5 mils	320.0 square feet
1 mil	1600.0 square feet

*If coating contains a solvent which will evaporate, thickness of coating will be reduced by same percentage as solvent loss.*

#### Pictograms:



#### Signal Word:

Part A: WARNING Part B: DANGER

#### Personal Protective Equipment Required:



#### DOT Placard:



#### VOC Compliant:

Yes.