

## FAST CURE™ Fast Set Epoxy Coating



**PRODUCT DESCRIPTION:**

Fast Cure™ is a two component 97% (+/- 1%) solids colored coating designed for applications where a high build quick setting impact resistant floor is needed. This product has a fast rate of property development and will achieve full chemical resistance in as little as 3 days at normal room temperatures. In addition, Fast Cure™ has good low temperature cure capabilities to as low as 50°F. Fast Cure™ has good color stability and top coating with an aliphatic urethane is optional dependent on color stability requirements.

**RECOMMENDED FOR:**

Recommended for medium to high build topcoats on concrete or masonry. Fast Cure™ is suitable for a medium build broadcast binder because of its low viscosity.

**SOLIDS BY WEIGHT:**

97% (+/- 1%)

**SOLIDS BY VOLUME**

96% (+/- 1%)

**VOLATILE ORGANIC CONTENT:**

Less than 0.50 pounds per gallon (mixed)

**STANDARD COLORS:**

Light gray, medium gray, tile red, and beige

**RECOMMENDED FILM THICKNESS:**

10-20 mils

**COVERAGE PER GALLON:**

80-160 square feet per gallon @ 10-30 mils

**PACKAGING INFORMATION**

3 gallon kit (2.9-3.0 gallons net approximately)

1 1/2 gallon kit (1.45-1.50 gallon net approximately)

**MIX RATIO:**

9.1 pounds (1 gallon) part A to 4.25 pounds (0.50 gallons) part B (volumes approx.) (standard colors) other colors will vary by weight.

**SHELF LIFE:**

1 year in unopened containers

**FLEXURAL STRENGTH:**

12,400 psi @ ASTM D790

**COMPRESSIVE STRENGTH:**

10,600 psi @ ASTM D695

**TENSILE STRENGTH:**

8,100 psi @ ASTM D638

**ADHESION:**

450 psi @ elcometer (concrete failure, no delamination)

**ULTIMATE ELONGATION:**

3.1%

**FINISH CHARACTERISTICS:**

Gloss (>70 at 60 degrees @ gloss meter)

**HARDNESS:**

Shore D= 75

**GARDNER VARIABLE IMPACTOR:**

50 inch pounds direct – passed

**ABRASION RESISTANCE:**

Taber abraser CS-17 calibrase wheel with 1000 gram total load and 500 cycles= 23 mg loss

**VISCOSITY:**

Mixed = 350-800 cps (typical, most colors)

**DOT CLASSIFICATIONS:**

Part A “not regulated”

Part B “CORROSIVE LIQUID N.O.S., 8, UN1760, PGIII”

**CURE SCHEDULE: (70°F)**

pot life – (1 gallon- typical).....15-20 minutes  
 (150g mass).....22-32 minutes  
 tack free (dry to touch).....4-6 hours  
 tack free (dry to touch) @ 50°F...12-16 hours  
 recoat or topcoat.....6-9 hours  
 light foot traffic.....8-14 hours  
 full cure (heavy traffic).....2-5 days

**APPLICATION TEMPERATURE:**

50-90 degrees F with relative humidity below 85%

**CHEMICAL RESISTANCE:**

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

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.

**PRIMER:**

Optional: Tigerskin™ water-based epoxy may be used as a suitable primer.

**TOPCOAT:**

Optional: Hi-Gloss™ for increased UV stability.

**LIMITATIONS:**

- Color or gloss may be affected by environmental conditions like humidity, temperatures, chemicals, or exposure to 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.
- Because of the short pot life and dry time, attention should be given to the trim work and tie-in areas to keep a wet edge so as to avoid roller marks, differences in color or shading problems.
- This product is not UV color stable, for improved color and UV resistance, topcoat with a colored aliphatic urethane.
- Lightly scuff the product prior to top coating to improve adhesion performance between coats.
- 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.
- Apply a suitable primer before using this product.
- Physical properties are typical values and not specifications.

**MIXING AND APPLICATION INSTRUCTIONS**

1) **PRODUCT STORAGE:** Store product at normal room temperature. Continuous storage should be between 60 and 90 degrees 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 9.1# part A to 4.25# 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. Pre-mix the part A. Then mix together the part A and part B, mix well with slow speed mixing equipment such as a jiffy mixer until the material is thoroughly mixed and streak free. This product has a short pot life, therefore be prepared to work in an organized manner. Mix only an amount that can be applied in the specified pot life time. 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. Always maintain a wet edge to avoid color shading differences.

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 top

coating can commence. Before recoating or top coating, 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 top coating or recoating. Some standard 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.

#### **NOTICE TO BUYER:**

#### **DISCLAIMER OF WARRANTIES AND LIMITATIONS ON OUR LIABILITY**

We warrant that our products are manufactured to strict quality assurance specifications and that the information supplied by us is accurate to the best of our knowledge. Such information supplied about our products is not a representation or a warranty. It is supplied on the condition that you shall make your own tests to determine the suitability of our product for your particular purpose. Any use or application other than recommended herein is the sole responsibility of the user. Listed physical properties are typical and should not be construed as specifications. **NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, REGARDING SUCH OTHER INFORMATION, THE DATA ON WHICH IT IS BASED, OR THE RESULTS YOU WILL OBTAIN FROM ITS USE. NO WARRANTY IS MADE, EXPRESSED OR IMPLIED, THAT OUR PRODUCT SHALL BE MERCHANTABLE OR THAT OUR PRODUCT SHALL BE FIT FOR ANY PARTICULAR PURPOSE. NO WARRANTY IS MADE THAT THE USE OF SUCH INFORMATION OR OUR PRODUCT WILL NOT INFRINGE UPON ANY PATENT.** We shall have no liability for incidental or consequential damages, direct or indirect. Our liability is limited to the net selling price of our product or the replacement of our product, at our option. Acceptance of delivery of our product means that you have accepted the terms of this warranty whether or not purchase orders or other documents state terms that vary from this warranty. No representative is authorized to make any representation or warranty or assume any other liability on our behalf with any sale of our products. Our products contain chemicals that may **CAUSE SERIOUS PHYSICAL INJURY. BEFORE USING, READ THE MATERIAL SAFETY DATA SHEET AND FOLLOW ALL PRECAUTIONS TO PREVENT BODILY HARM.**