



# HIGH PERFORMANCE EPOXY

## PRODUCT NAME

### HIGH PERFORMANCE EPOXY

MANUFACTURER & DISTRIBUTOR  
OF INDUSTRIAL CHEMICALS  
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## PRODUCT DESCRIPTION

HIGH PERFORMANCE EPOXY is a 100% solids performance coating designed to provide high gloss, high-build protection for concrete, rigid surfaces and masonry. Offering good protection against cleaners, oils, fuels, solvents and water.

As a 100% solids coating, HIGH PERFORMANCE EPOXY has lower solvent odor than typical industrial coatings. This feature allows applications in occupied buildings.

This system may be applied in food processing, breweries, and pharmaceutical plants, kitchens, food storage rooms, and light commercial industrial facilities.

## FUNCTIONAL CONSIDERATIONS

- Solids ..100%
- Odor ..Low
- Stain Resistance .. Good
- Chemical Resistance
  - Water ... Excellent
  - 50% Caustic (NaOH) No Effect
  - Mek .. Excellent
  - Chlorox Excellent
  - Xylene . Excellent
  - Skydrol Excellent
- Durable tile-like finish provides good graffiti resistance.
- May be applied in excess of 10 mils (250 um) in one application. (Up to 375 mils (1 cm) in 2 to 3 coats)

## TECHNICAL DATA

Pot Life 75°F (24°C) .40 min.  
Thin Film Set Time @ 75°F (24°C)  
6 to 8 mils 3 to 4 hours

Tack Free Time @ 75°F (24°C)  
6 to 8 mils 5 to 6 hours  
Recoat time ...18 to 24 hours  
Foot Traffic ..24 hours  
Full Cure full cure in 7  
Ambient 60° -85° F to 14 days  
(15.5° C – 29.5° C)

Mixing Ratio 2 :1  
Min. Application  
Surface Temp ..60° F

Coverage/U.S.Gallon (3.78 Lt.)  
at 5 mils ..320 sq. ft.  
(125 um 30 sq. m)  
at 10 mils 160 sq. ft.  
(250 um 15 sq. m)  
at 20 mils .80 sq. ft.  
(500 um ..7.5 sq. m)  
at 40 mils .40 sq. ft.  
(1000 um 3.7 sq. m)

Weight per U.S. gallon in lbs.  
Component A 10.0 -10.5  
(4.55 – 4.80 Kg.)  
Component B .8.5 +-0.2  
(3.87 +- 0.1Kg.)

Viscosity at 75°F (24°C).85-95 Ku  
Solids .100%  
VOC ...0.0g/L

## PHYSICAL CHARACTERISTICS

Compressive Strength ...9,000 – 10,000 psi  
Flexural Strength .5,800 – 6,000 psi  
Abrasion Very Good  
Adhesion ...>250 psi  
Hardness (SHORE) 84

## COLOR

HIGH PERFORMANCE EPOXY is available in 30 standard colors. Custom colors also available.

## SURFACE PREPARATION AND APPLICATION

**SURFACE PREPARATION:** This epoxy floor coating is designed for application on concrete substrates. All surfaces must be properly prepared before application to ensure successful installation. Improper preparation can result in poor adhesion and delamination from the surface. New concrete surfaces should be allowed to cure for a minimum of 28 days prior to coating. Some concrete surfaces may have a layer of "laitance". This layer must be removed by mechanical method prior to installation using (ASTM D4258 Standard practice for cleaning concrete for coating). Substrate must be degreased using Increte Systems Grease-A-Way and acid etched for proper coating performance and adhesion.

Old or rough concrete surfaces should be prepared and made as smooth as possible. If necessary the surface should be mechanically abraded (See also ASTM D4259 Standard practice for abrading concrete). Surface must be degreased with Increte Systems Grease-A-Way, and etched with muriatic acid (5 parts water to 1 muriatic acid by volume) until achieving a sand paper-like finish. The concrete must be completely dry before coating.

The degree of dryness can be checked by securely taping clear polyethylene plastic sheet over an area of 1 square meter. Evaluate for moisture build up within 16 to 24 hours. Further drying may be accomplished by using infra red space heaters. If the coating cannot be applied after surface prepping, be sure to remove all dust or foreign matter before application.

**APPLICATION:** Mix only enough material to be used up in 25 minutes. This product can be applied in a single coat upto 25 mils (625 um) thick. Do not leave material in a pail for longer than 40 minutes. Add the entire contents of the cure container (40 ounces) to the resin container (80 ounces) and mix using a 450-rpm drill with a minimum 3 in. to 5 in. jiffler blade. Mix part A (Resin) with part B (Cure) for 1 ½ minutes and mix no more than 3 gallons at a time.

Spread the material with a rubber squeegee using spiked shoes as spiked golf shoes. Start from one end of the floor and work backwards and sideways trying to keep a wet to wet edge. The coating should then be rolled in one direction using a 3/8-inch nap roller.

Always mix the epoxy to the exact prescribed ratio. Discard container after use. Make sure that the material is applied as fast as possible without leaving puddles.

### **PRECAUTIONS**

Ventilation is required for closed areas. Use proper safety equipment such as gloves, eye protection, etc. Solvent wipe with Solv-Kleen between coats in an amine blush is present (a greasy film which occurs in high humidity conditions). During hot weather, keep the epoxy in a cool place during the job until ready to use. In cold weather (less than 60° F), keep the epoxy warm. 70° F is ideal. For clean up use Increte's Solv-Kleen. Do not use in proximity of flames or sparks.

### **REPAIR/RECOAT**

If product requires resurfacing, the existing coating should be slightly sanded with coarse sand paper, followed by a second sanding with fine sand paper. Remove all dust and solvent. Wipe with Solv-Kleen. All dirt, grease and foreign material must be removed before resurfacing.

### **WARRANTY**

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