Technical Data Sheet

4/14/2018

Epoxy Coat™ 7000 AR

Description: An acid-resistant, room-temperature cured, 100% solids, epoxy coating

Intended Use: Ideal coating for chemical storage tanks, dike walls, and containment areas where chemical resistance to acids are needed.

Product features:
High build (8-10 mils)
Superior resistance to concentrated acids (including 98% sulfuric)
Applies with brush or roller
Excellent adhesion to concrete surfaces
Novolac resin

Limitations: Not recommended for out door use

Typical Physical Properties:

Technical data should be considered representative or typical only and should not be used for specification purposes.

Cured 7 days @ 75° F	
Application Coverage per Unit	**200 sq.ft. @ 16mils (.016")**
Application Temperature	**60-90°F**
Color	**Gray**
Cure Hardness	**85D**
Cure Time	**24hrs**
Cure Time - Full Chemical	**10 days**
Cure Time - Full Service	**48 hrs**
Functional Cure	**24 hrs**
Minimum Recoat Time @ 75F	**4-6 hrs.**
Mix Ratio	**1.7:1 by wt./1.5:1 by volume**
Mixed Viscosity	**3,600 cps**
Packaging	**2 gal. /19 lbs.**
Pot Life @ 75F	**36 min.**
Solids by Volume	**100**
Temperature Resistance	**Wet: 130°F; Dry: 200°F**

Surface Preparation:

For METAL SURFACES, use a wire brush or sandpaper to remover rust and scale from the surface to be protected. Surfaces may be shot blasted or abraded using a wire wheel for best results. All dirt, grease, and old paint should be removed. All clean dry surface is essential for the best results.

Begin with a sound, clean, dry and roughened, oil-free application surface, as it is essential to the success and performance of this product.

Spot test surface by mixing a small quantity of the resin and hardener without the silica filler. Apply the compound to a small, clean test area. Old paint may wrinkle or lift. If it DOES NOT, wait five (5) days and test the bond strength by scraping surface with a sharp instrument. A pressure-sensitive tape test can also be used as follows: cut an “X” into surface and place tape firmly over the cut. Remove the tape with a hard, fast pull. If the coating fails either test, proceed with instructions for previously coated concrete (see below).

For NEW POURED CONCRETE, allow to fully cure (28 days @ 70°F) prior to application. Remove any curing membrane by sanding or etching with a strong detergent.

For OLD CONCRETE, thoroughly clean surface with a grease-cutting detergent to remove grease and oils, and remove any loose or unsound concrete by chipping, scarifying, shotblasting, sanding, or grinding. Proceed as for new poured concrete.

For PREVIOUSLY COATED CONCRETE, applications should be considered short term because the coating system is only as strong as its weakest component. Remove any peeling or degraded paint by sanding or using a paint stripper. For intact paint, thoroughly clean the surface with a strong detergent, then lightly sand to remove any gloss. Treat any areas worn down to the original concrete as bare concrete.

Mixing Instructions:

1. Pour hardener into resin.
2. Mix for about three (3) minutes using a propeller-type Jiffy Mixer Model ES (or equivalent) until a uniform color is achieved.

Application Instructions:

For best results, Epoxy Coat 7000 AR should be stored and applied at room temperature.

PRIOR TO APPLICATION:
1. Fill large holes with a patching compound (Devcon Floor Patch or Devcon Ultra Quartz is recommended).

2. Prime floor surface with a 6-8 mil coating of Devcon Epoxy Concrete Sealer to seal porous concrete and prevent "outgassing." After 4-6 hours, the primer coat can be top-coated with Epoxy Coat 7000 AR.

APPLICATION:
Apply Epoxy Coat 7000 AR onto floor with a notched squeegee, then "back roll" for a smooth finish (a 3/8" or ½" nap roller is recommended for best results). Coverage will vary based on surface conditions.

Epoxy Coat 7000 AR produces a smooth finish, which can be slippery, especially when wet. To prevent slipping add a non-skid aggregate such as ground walnut shells or dry sand to the coating.

Storage:

Store at room temperature, 70 °F.

Compliances:

Approved in the U.S. for use in meat and poultry processing plants.
Accepted by Canadian Department of Agriculture Food Safety Service.

Chemical Resistance:

Chemical resistance is calculated with a 7 day, room temp. cure (30 days immersion) @ 75°F)

Acetic (Dilute) 10%	Poor	Nitric 50%	Excellent
Cutting Oil	Excellent	Phosphoric 50%	Excellent
Gasoline (Unleaded)	Excellent	Potassium Hydroxide 40%	Very good
Hydrochloric 36%	Excellent	Sodium Hydroxide 50%	Excellent
Methanol	Poor	Sodium Hypochlorite	Excellent
Methyl Ethyl Ketone	Poor	Sulfuric 10%	Excellent
Methylene Chloride	Poor	Sulfuric 50%	Excellent
Nitric 10%	Fair	Toluene	Excellent

Precautions:

Please refer to the appropriate safety data sheet (SDS) prior to using this product.

For technical assistance, please call 1-855-489-7262

FOR INDUSTRIAL USE ONLY

Warranty:

ITW Performance Polymers will replace any material found to be defective. Because the storage, handling and application of this material is beyond our control, we can accept no liability for the results obtained.

Disclaimer:

All information on this data sheet is based on laboratory testing and is not intended for design purposes. ITW Performance Polymers makes no representations or warranties of any kind concerning this data.

Order Information:

12750 2 gal.