Epoxy Systems' Product #630

100% Solids Epoxy Novolac

DESCRIPTION

Epoxy Systems Product #630 is a 100% solids epoxy Novolac ideal for harsh chemical and solvent resistant applications. **Epoxy Systems Product #630** is ideal for use as a troweled mortar, slurry binder, and coating for concrete and steel in extremely corrosive areas where resistance to 98% sulfuric acid or other strong caustics is needed.

Epoxy Systems Product #630 is ideal for use as a protective coating for concrete and steel in the extremely corrosive areas of chemical plants and pulp mills secondary containment areas, water and waste treatment, and gas and electric utilities.

ADVANTAGES

- Exhibits excellent resistance to strong acids, alkalis, and most industrial chemicals and solvents
- Can be applied in cool damp conditions
- Can be re-coated in 7 to 8 hours
- Can be applied in occupied facilities
- Clear formulation is excellent for colored quartz applications.

CONSIDERATIONS

- Concrete substrate must be free of dirt, waxes, curing agents, and other foreign materials.
- Steel surfaces must be free of grease and oils. Abrasive blast.

COMPOSITION

- 100% solids, modified cycloaliphtic cured epoxy Novolac resin.

APPLICATION

SURFACE PREPARATION

Surface Preparation is the most critical portion to any successful resinous system application. All substrates must be properly prepared as outlined in **Epoxy Systems= TECHNICAL BULLETINS.** Trained or experienced contractors or maintenance personnel must perform work. The **Epoxy Systems'** tech service department is pleased to answer any questions.

INSTALLATION

Will vary with application method.

PHYSICAL PROPERTIES	
Color	Clear, Light Grey, Brick Red, Black, Blue, custom colors available.
Solids Content	100%
Gloss 60 degrees F	90
Mix Ratio	2A to 1B by volume
Pot Life	20 - 25 minutes @ 75 degrees F
VOC	0%

DRY TIME	
Foot Traffic	6-7 hours
Recoat	8 - 12 hours
Service	3-5 days

PERFORMANCE PROPERTIES	
Tensile Strength ASTM-D-638	4,000 psi
Compressive Strength ASTM-D-695	11,000 psi
Adhesion to concrete ACI Committee 403	300 psi - 100% concrete failure
Hardness ASTM-D-2240	85 Shore D
Abrasion Resistance ASTM-C-501 CS-17 Wheel	30 mg lost
Service Temperature MIL- D-3134F	Up to 180-325 degrees F. Dry Heat
Impact Resistance MTI-D-3134F ' 4.7.3	16 ft. Lbs
Indentation MIL-D-3134F ' 4.7.4	No Indentation
Elevated Temperature Resistance MIL-D-3134F '4.7.5	Passed
Water Absorption ASTM-D-570 (24. Hr. Immersion)	0.10%

CHEMICAL RESISTANCE

R-Recommended for Immersion service (greater then 6 months). S1B Slash & Spill 7 day clean-up. S2 Spash & Spill 24 hour clean-up. S3 Splash & Spill hourly clean-up. ND Not Determined.

REAGENT	RATING
Acetic Acid 20%	R
Acetone	S3
Aluminum Chloride - 30%	R
Aluminum Nitrate - 50%	R
Aluminum Sulfate - 50%	R
Ammonium Hydroxide-30%	R
Ammonium Sulfate - 50%	R
Ammonium Sulfide - 50%	R
Barium Sulfate	R
Barium Sulfide	R
Beer	R
Benzene	S2
Benzyl Alcohol	R
Black Liquor	R
Butyl Acetate	R
Brake Fluid	R
Butanol (Normal)	R
Calcium Chloride	R
Calcium Hydroxide	R
Citric Acid - 40%	S1
Corn Oil	R
Crude Oil - Sour	R
Crude Oil - Sweet	R
Cutting Oil	R
Cyclohexeone	S3
Diacetone Alcohol	S2
Diesel Fuel	R
Diethylene Glycol	R
Distilled Water	R
Ethanol	R

Eythl Acetate	R
Ethyl Alcohol	R
Ethylene Dichloride	S1
Ethylene Glycol	R
Fatty Acids	R
Freon	S1
Fuel Oil	R
Gasoline - Unleaded regular	R
Gasoline -Unleaded premium	R
Glucose	R
Glycerine	R
Glyoxal - 40%	R
Heptane	R
Hexane	R
Hexylene Glycol	R
Hydrolic Fluid	R
Hydrochloric Acid -10%	R
Hydrochloric Acid-36%	R
Hydrogen Peroxide 5%	R
Iodine	R
Isobutyl Alcohol	R
Isopropyl Alcohol	R
JP-4 Jet Fuel	R
JP-5 Jet Fuel	R
Kerosene	R
Ketchup	R
Lactic Acid	R
MAK	ND
Methyl Ethyl Ketone	R
Methanol	R
MIBK	R

Mineral Spirits	R
MTBK	R
Nitric Acid - 10%	R
Oxalic Acid	R
Peanut Oil	R
Perchloroethylene	R
Phosphoric Acid 10%	R
Phosphoric Acid 75%	R
Phosphoric Acid 85%	R
Power Steering Fluid	R
Skydrol	R
Sodium Hydroxide - 50%	R
Sodium Hydroxide - 70%	R
Sodium Hyprchlorite 10%	R
Sodium Nitrate - 50%	R
Sulfarnic Acid	R
Sulfuric Acid 10%	R
Sulfuric Acid 50%	R
Sulfuric Acid 70%	R
Sulfuric Acid-98%	R
Toluene	R
Tomato Juice	R
Transmission Fluid	R
Urine	R
Vinegar	R
Vinyl Tolene	R
White Liquor	R
Xylene	R

WARRANTY

Epoxy Systems′ Product Company ("ESI") warrants for a period of one (1) year that its products will be free of manufacturing defects and will be in conformity with published specifications when handled, stored, mixed and applied in accordance with recommendations of ESI. If any product fails to meet this warranty, the liability of ESI will be limited to replacement of any non-conforming material if notice of such non-conformity is given to ESI within (1) one year of delivery of materials, ESI may in its discretion refund the price received by ESI in lieu of replacing the material. No customer, distributor, or representative of ESI is authorized to change or modify the published specifications of this warranty in any way. No one is authorized to make oral warranties on behalf of ESI. In order to obtain replacement or refund the customer must provide written notice containing full details of the non-conformity. ESI reserves the right to inspect the non-conforming material prior to replacement. EXCEPT FOR THE EXPRESSED WARRANTY STATED ABOVE, THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY IMPLIED WARRANTY QF MERCHANTABILITY OR FITNESS FOR PURPOSE. ESI'S OBLIGATION SHALL NOT EXTEND BEYOND THE OBLIGATIONS EXPRESSLY UNDERTAKEN ABOVE AND ESI SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO THE PURCHASER OR ANY THIRD PARTY FOR ANY LOSS, COST, EXPENSE, DAMAGE OR LIABILITY, WHETHER DIRECT OR INDIRECT, OR FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

More information

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