

Epoxy Systems' Product #634

100% Solids High Temperature – High Chemical Resistance Epoxy

DESCRIPTION

Epoxy Systems' Product #634 is a 100% solids amine cured epoxy Novolac that is solvent free. Suitable for immersion and non-immersion service particularly in aggressive acid and alkali environments with elevated temperatures. **Epoxy Systems' Product #634** produces a tough, chemical resistant coating on concrete, iron and non-iron surfaces. As a low viscosity epoxy Novolac it is suitable for hand or spray application.

USES

- Aggressive Chemical Tank Linings
- Secondary Chemical Containment
- Mix Zones
- Scrubbers
- Etc.

ADVANTAGES

- Exhibits excellent resistance to strong acids, alkalis, and most industrial chemicals and solvents
- High build yields a durable surface
- Can be applied in occupied facilities
- Can be used in immersion service up to 250 degrees F. with a spike (3 hour) temperature of up to 350 degrees F. with recommended force cure of 200 Degrees F. for 6 hours
- 3 year shelf life at 55-95 degrees F.

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, required for steel.

PHYSICAL PROPERTIES	
Color	Red, other colors by special order only
Solids Content	100%
Viscosity	15,000-20,000 CPS
Mix Ratio	2A to 1B by volume
Pot Life	20 - 25 minutes @ 72 Degrees F
VOC	0%

CHEMICAL RESISTANCE PROPERTIES	
Water	Excellent
Alkalies	Excellent
Inorganic Acids	Excellent
Organic Acids	Good
Organic Solvents	Excellent

DRY TIME	
Foot Traffic	8-12 hrs
Recoat @77 Degrees F.	6 - 14 hrs.
Immersion Service	7 days

APPLICATION

SURFACE PREPARATION

Steel Surfaces should be blasted to an SSPC SP6 commercial gray metal blast. Immersion applications should be blasted to an SSPC SP-5 white metal. Grind flat all burrs, weld seams, round sharp edges. Freshly blasted surface can be primed with this material.

Concrete surfaces should be abrasive clean to remove soft surfaces, paint, sealers, and any other contamination. Prime with Epoxy Systems #634 or #637.

INSTALLATION

Mix 2 Parts Resin (A) to 1 part Hardener (B) by volume, adding the B to the A. Mix with a mixing stick or low speed drill with a mixing paddle. Do not thin.

Apply by brush, roller, or airless spray. To brush use medium to stiff bristle brush with a bristle quality that does not pull out into the coating. To roll use a 1/8 to 1/4 inch nap roller on concrete. To plural spray use .019 - .021 tip at 2,000-2,500 PSI. Heat "A" component to 120 degrees F. Heat "B" to 110 degrees F. To spray by airless spray, use .019-.023 tip at 2,000-2,500 psi with in line heater only (Caution: Short pot life). It is not recommended that you use conventional spray. Apply two coats at 10 mils thick each for dry applications. A third coat for a total thickness of 30 mils recommended for immersion applications.

Keep material between 55 degrees F and 95 degrees F. Maintain a substrate temperature between 45 and 105 degrees F. The difference in temperature between the substrate and the coating should never exceed 10 degrees F

For best chemical and temperature resistance force cure for 12 hours at 150 degrees F, 6 hours at 250 degrees F.

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More information

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