

Chemical resistant novolac epoxy

Technical Bulletin # 438C

Product Description

A heavy duty, interior, two-component novolac epoxy coating formulated for demanding industrial requirements. It dries rapidly to a tough, semi-gloss finish with excellent resistance to alkali, abrasion, corrosion and chemical attack.

- Attractive semi gloss finish
- Excellent resistance to chemical attack
- Anti-slip finish available
- Easily applied by brush, roll, or spray

Surface Preparation

New Concrete: All surfaces must be firm, free of any laitance or efflorescence, clean, free of any adverse moisture conditions, have an appropriate surface profile, and be well cured before coating. Newly poured concrete must age at least 30 days at temperatures over 70°F before coating. Form release agents, sealers, curing compounds, salts, hardeners and other foreign matter will interfere with adhesion and must be removed. Shot-blasting, mechanical scarification, suitable chemical means, or sandblasting should be employed to prepare substrate.

Old Concrete: Coating older, uncoated concrete floors is done in much the same manner as new concrete. Before preparation, the concrete surface must be thoroughly cleaned with a strong detergent cleaner to remove all grease, oils, etc. All loose concrete must be removed. Holes and cracks should be filled with IMPAX Crack Fillers before application of a coating. If surface deterioration presents an unacceptably rough floor, IMPAX 5020 floor resurfacer is recommended to patch and resurface damaged concrete.

Steel: All surfaces must be dry, clean and free of all previous coatings, rust and surface contamination. Minimum surface preparation is abrasive blast to Commercial Grade SP-6. Blasted surfaces must be coated within 8 hours. Prior to blast cleaning, remove all deposits of oil or grease using Solvent Clean method SP-1.

Wood: A clean, sound wood surface is required. Remove any oils and dirt from the surface, using degreasing solvent or strong detergent. Follow with sanding to remove loose or deteriorated surface wood and to obtain the proper surface profile. Consult ITW Resin Technologies' Technical Department for specific recommendations.

Previously Painted Surfaces: If the paint is peeling or degrading in any way, it should be completely removed by sanding, blasting or stripping. If previous paint coating is completely intact, the surface may be cleaned with a strong detergent or solvent and scuff sanded to remove the gloss. A spot test should be made by applying a small amount of coating over old paint. The old finish may wrinkle or lift within 60 minutes. If it does not, wait 5 days and test for adhesion and compatibility. Do this by cutting an "X" into the coating, place tape firmly over the cut then strip with a hard, fast pull. If the old finish fails, it must be removed or an appropriate barrier coat should be considered.

(For more detailed information, see Bulletin # 400B)

Recommended Systems

See IMPAX Product Selection Guide for more details.

Concrete/Wood: 1st coat: IMPAX 2001 CRE or other compatible IMPAX Primer
2nd coat: IMPAX 2001 CRE (with anti-slip aggregate if required)

Steel: 1st coat: Use appropriate rust inhibitive epoxy primer.
2nd coat: IMPAX 2001 CRE (with anti-slip if required)

Painted Surfaces in Sound Condition: 1-2 coats: IMPAX 2001 CRE

Mixing and Application Instructions

Premix both components before combining. Pour 1 part resin and 1 part hardener into a container and power mix for 2-3 minutes at 250 rpm to insure that all pigment is completely dispersed. Anti-slip additive is mixed into the final coat just prior to application. Application over rough surfaces will reduce coverage. IMPAX 2001 coating is easily sprayed, brushed or rolled. A 3/4" pile roller is recommended for the final coat when using an anti-slip aggregate otherwise, a high quality 3/8" nap roller cover is recommended. Consult ITW Resin Technologies Technical department for spraying recommendations. Material cannot be sprayed if anti-slip aggregate is used. It is strongly recommended that only full units be used, that both components are thoroughly mixed, and that all material from the bottom and sides of the container is mixed. We do not recommend using partial kits. Do not scrape or drain mixing containers. Do not reduce this material. Clean all equipment with IMPAX IXT 59 Solvent.

IMPORTANT: Additive of anti-slip aggregate produces only a light non-slip texture. Product should not be used in place of a non-skid finish when safety is a concern.

PRECAUTION: Flammable - Keep away from heat and open flame. Maintain good ventilation and avoid breathing vapors. Avoid prolonged or repeated skin contact.

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ITW Performance Polymers Europe
ISO 9001:2000
Q 06420

Technical Information

COLOR: Haze Gray, Deck Gray, Sandstone, Tile Red, Safety Yellow

GLOSS: Semi Gloss

VOLUME SOLIDS: 64%

VOC: <2.8 lbs./gal. (<340g/l) (based on mixed components). Check local VOC regulations before applying.

COVERAGE: 200 ft²/gal @ 8 mils WFT 5 mils DFT (4.88 m²/L @ 178 microns WFT 127 microns DFT)

PACKAGING: 2-gal. unit containing 1 gal. can epoxy resin
1 gal. can hardener
10-gal unit containing 5-gal pail epoxy resin & 5-gal pail hardener

APPLICATION TEMPERATURES: 55°F minimum to 100°F maximum
*Must be 5°F above dew point

RELATIVE HUMIDITY: 85% maximum

SERVICEABILITY: Recoat - 8 hrs. minimum @ 72°F @ 50% RH
Foot traffic: 24 hrs. @ 72°F @ 50% RH
Full Service: 72 hrs. @ 72°F @ 50% RH
Full Cure: 5 - 7 days @ 72°F @ 50% RH

MIXING RATIO: 1:1 equal parts epoxy resin/hardener

INDUCTION: None

POT LIFE: 6 hrs. @ 72°F

FLASH POINT: 80°F TCC

VISCOSITY: 1000 cps

CLEAN UP: IMPAX IXT 59 Solvent

SERVICE TEMPERATURE: 200°F Dry Heat Resistance

SHELF LIFE: 12 months in closed container stored at 50° to 90°F (10° to 32°C)

Date

07/2006

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