

Technical Bulletin 504A

Product Description

IMPAX Moisture Mitigating Primer is a low viscosity, 100% solids, high build, epoxy primer designed for use under IMPAX Coating systems or where a high build primer is needed. This primer / sealer coat enhances adhesion by penetrating into the concrete substrate and helps reduce bubbling and pinholes that may occur when coating porous surfaces with high build coatings. IMPAX Moisture Mitigating Primer meets OSHA, State VOC regulations and USDA standards for maintenance protective coatings not in direct contact with food in federally inspected meat and poultry plants.

Use & Benefits

IMPAX Moisture Mitigating Primer is intended as a high build primer for use on open or porous substrates where it is necessary to cover a rough surface profile with a pigmented topcoat. Concrete substrates that are scarified, shot blasted or sandblasted may have a coarse profile requiring a primer that both penetrates and seals the surface.

Surface Preparations

New Concrete: All surfaces must be firm, clean, dry and well cured before coating. Newly poured concrete must age at least 30 days at temperatures over 70°F before coating. Form release agents, curing compounds, salts, hardeners and other foreign matter will interfere with adhesion and must be removed by sandblasting, shot blasting, mechanical scarification or suitable chemical means. If a curing membrane was not used, then proceed with a 16% muriatic acid etch (1 gal. 32% muriatic acid to 1 gal. water) at a rate of 75 sq. ft./gal.

Old Concrete: Coating older, uncoated concrete floors is done in much the same manner as new concrete. Before etching, the concrete surface must be thoroughly cleaned with a strong detergent cleaner to remove all grease, oils, etc. All loose concrete must be removed. Form release agents, hardeners, etc., must be removed using same procedure as for new concrete. Holes and cracks should be filled with ITW REPAIR COMPOUND 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.

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.

Mixing and Application Instructions

Before mixing IMPAX Moisture Mitigating Primer it is important that the surface is completely prepared and ready and that all tools and equipment are handy. To mix 1 gallon units: Use electric or air mixer (approximately 250 rpm) with metal mixing blade (Jiffy Model HS or equal). Pour hardener contents into slack-filled resin can and mix for 2 to 3 minutes until material is thoroughly blended. To mix 5 gallon units: Use same procedure as 1 gallon units except a larger blade (Jiffy Model ES or equal) is required.

Immediately pour a substantial portion of mixture onto the floor and spread material using a flat, rubber squeegee using sufficient pressure to work the primer into the porous surface. Immediately back roll the material with a quality 3/8" nap roller leaving 12 to 16 mils on the surface.

The fast set primer can be top-coated in 9 hours at 72°F (22°C). The primer must be tack free before top-coating. If pinholes or porosities are evident after initial cure of the primer, re-priming may be necessary; especially on very porous concrete.

Precautions

Maintain good ventilation and avoid breathing vapors. Avoid prolonged and repeated skin contact. Wear safety glasses and impervious gloves.

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Physical Properties Properties

VOLUME SOLIDS	100%
VOC (Based on mixed components)	<0.03 lbs/gal (<3.7 grams/ltr)
FLASH POINT	200°F (93°C)
VISCOSITY	800-1000 cps @ 72°F (22°C)
SERVICE TEMPERATURE	180°F (82°C) Dry Heat Resistance

Product Information

COLOR	Transparent Amber to Brown
GLOSS	> 70 Specular Gloss
COVERAGE	114 sq. ft./gal. @ 14 mils DFT/WFT (2.8 m ² /liter @ 200 microns WFT/DFT)
APPLICATION TEMPERATURE	55°F minimum to 95°F maximum (12°C minimum to 35°C maximum) *Must be 5°F above dew point
RECOAT	Minimum - 8 Hours @ 72°F (22°C) @ 50% RH Maximum - 72 Hours @ 72°F (22°C) @ 50% RH
MIXING RATIO	1 to .52 parts epoxy resin/hardener by volume
INDUCTION	None
RELATIVE HUMIDITY	85% maximum
POT LIFE	35 Minutes @ 72°F (22°C)
CURE TIME (approximate)	Fully cured in 7 days
DRY TIME	For 14 mils WFT - 8 Hours @ 72°F (22°C) @ 50% RH
REDUCER	Not recommended
CLEAN UP	IMPAX IXT-59 Solvent
PACKAGING per Unit	1 gal. unit containing 1 gal. can (slack-filled) resin, ½ gal. Can (slack filled) hardener (3.7 liters unit volume) 5 gal. unit containing 5 gal. can (slack-filled) resin, 1½ gal. plastic jug hardener (18.4 liters unit volume)
SHELF LIFE	18 months in closed container stored @ 50°F to 90°F (10°C to 32°C)

Reference

For more detailed information on surface preparation please request Bulletin or contact ITW Polymer Technologies' Engineering Services Department.

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