

IMPAX® WATER-BASED EPOXY PRIMER CLEAR

Technical Bulletin #849C

PRODUCT DESCRIPTION: A two component, water-based epoxy primer. This product is compatible with most high performance finish coats and, in many cases, can be an effective barrier coat when coating a previously painted surface. The product can also be used as a primer for damp concrete or masonry. It is OSHA and Sate VOC compliant.

RECOMMENDED USES: A suitable primer for concrete or wood substrates as well as for previously painted surfaces. It can be used in conjunction with most IMPAX floor finishes.

SURFACE PREPARATION: (For more detailed information, see Bulletin #994)

New Concrete: All surfaces must be firm, clean 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, shotblasting, 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.

RECOMMENDED SYSTEMS: One coat of IMPAX Water-Based Epoxy Primer is recommended over properly prepared concrete/masonry or wood substrates. It can be topcoated with most IMPAX products. Consult ITW Philadelphia Resins' Technical Department for details.

MIXING AND APPLICATION INSTRUCTIONS: Before mixing IMPAX Water-Based Epoxy 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 stirred 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 backroll the material with a quality 3/8" nap roller leaving 6 to 8 mils on the surface.

The fast set primer can be topcoated in 6 hours at 72°F (22°C). The primer must be tack free before topcoating. If pinholes or porosities are evident after initial cure of primer, repriming may be necessary; especially on very porous concrete.

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TECHNICAL INFORMATION:

COLOR:	Clear
GLOSS:	Gloss
VOLUME SOLIDS:	38%
VOC (Based on Mixed Components):	1 lbs./gal. (120 gms./ltr.)
COVERAGE:	200 sq. ft./gal. @ 5-7 mils WFT/2-3 mils DFT (18.5 m ² /gal. @ 125-175 microns WFT/50 microns DFT)
PACKAGING:	1 gal. unit containing 1 gal. can (slack-filled) resin, 1 qt. can (slack-filled) hardener (3.7 liters unit volume) 5 gal. unit containing 5 gal. can (slack-filled) resin, 1 gal. can hardener (19 liters unit volume)
APPLICATION TEMPERATURES:	55°F minimum to 95°F maximum (12°C minimum to 35°C maximum) *Must be 5°F above dew point
RELATIVE HUMIDITY:	85% maximum (below 80% for best results)
SERVICEABILITY:	Recoat - 6 hours minimum @ 72°F (22°C) @ 50% RH 48 hours minimum @ 72°F (22°C) @ 50% RH
MIXING RATIO:	4 to 1 parts epoxy resin/hardener by volume
INDUCTION:	None
POT LIFE:	90 minutes @ 72°F (22°C)
FLASH POINT:	200°F (93°C)
VISCOSITY:	850 to 1,000 cps
REDUCER:	Water/PRT-59 (50/50 blend for CLEAN-UP ONLY)
SERVICE TEMPERATURE:	-10°F to 180°F (-23°C to 82°C) Dry Heat Resistance
SHELF LIFE:	1 year in closed container stored @ 50°F to 90°F (10°C to 32°C)
PRECAUTION:	Maintain good ventilation and avoid breathing vapors. Avoid prolonged and repeated skin contact. Wear safety glasses and impervious gloves.