

Heavy duty, chemical resistant, epoxy anti-slip

Technical Bulletin # 408A

Product Description

A two part epoxy anti-slip coating that exhibits superior chemical resistance to acids, alkali, solvents, fuels, etc. It is available in one grit size and is recommended for environments where a tough, chemically resistant, heavy duty anti-slip is required.

- Epoxy non skid exhibits a high chemical resistance
- Can be roll, trowel, or squeegee applied to achieve various textures
- Easy to mix and apply
- Anti-slip texture provides better traction which helps to eliminate slips and falls

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. Form release agents, hardeners, etc., must be removed, using same procedure as for new concrete. Holes and cracks should be filled with IMPAX Crack Filler 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. 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 Water based Gray or Clear Primer
2nd coat: IMPAX 300 Anti-slip

Painted Surfaces
in Sound Condition: 1 coat: IMPAX 300 Anti-slip

Steel: 1st coat: Use appropriate rust inhibitive epoxy primer.
2nd coat: IMPAX 300 Anti-slip

Mixing and Application Instructions

To mix 1 gallon (3.8 liter) units: Use electric or air mixer (250 to 500 rpm) with metal mixing blade (Jiffy Model HS or equal). If aggregate has settled in resin container, it is necessary to mix this material for 1 or 2 minutes prior to adding the hardener. Pour hardener contents into resin pail and mix for 3 to 4 minutes. Mixing time must be sufficient to thoroughly blend hardener into resin/aggregate mix. To mix 5 gallon (19 liters) units: Use same procedure as mixing 1 gallon (3.8 liter) units except larger blade (Jiffy Model ES or equal) is required. 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 pails. Do not reduce this material.

With material freshly stirred to evenly disperse aggregate, pour substantial portion of mixture onto deck or floor in a band approximately 18" to 24" (450mm to 600mm) wide. Using a trowel or squeegee, a 1/4" (6mm) nap roller or a core roller, spread nonskid evenly by pulling puddle toward applicator. Press down on roller. Avoid back and forth roller motion. Watch for thick, thin or uneven spots and immediately pull roller over these imperfect areas. With puddle nearly rolled out, pour additional mixed

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material over remaining puddle and continue application as above. Nominal applied thickness is 1/32" to 1/16" (0.8 to 1.6mm). Mixing and application process should be coordinated and continuous so wet edge is maintained to provide a uniform anti-slip surface texture and appearance. Mix only enough material for immediate application.

IMPAX 300 will begin to set shortly after application. Correct imperfections immediately upon application then allow coating to cure undisturbed. Allow coating to cure 24 hours with ventilation before allowing foot traffic. Allow 72 hours for heavy service. Trowel applications will produce a smooth, uniform surface. A 1/4" (6mm) nap, mohair roller will provide a randomly ridged profile and a bare core roller will provide a uniform ridged surface.

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

Technical Information

COLOR:	Gray, Yellow, Red, Black
GLOSS:	Flat
VOLUME SOLIDS:	71% (mixed)
VOC:	2.07 lbs./gal. (250 gr./ltr.)
COEFFICIENT OF FRICTION:	Dry - 1.05 Wet - 1.05 (ASTM F609)
COVERAGE:	30 to 40 sq. ft./gal. @ 1/32" to 1/16" DFT @ 30 to 60 mils DFT (762 to 1524 microns DFT) (2.8 to 3.7 m ² /gal. @ 0.8 to 1.6 mm DFT)
PACKAGING:	1 gal (3.8 liters) unit containing 1 gal (3.8 liters) slack-filled can resin/aggregate and 1 qt. (.95 liter) can hardener. 5 gal. (19 liters) unit containing 5 gal. (19 liters) slack-filled can resin/aggregate and 1 gal (3.8 liters) bag of hardener nested in the pail.
APPLICATION TEMPERATURES:	55°F minimum to 95°F maximum (12°F minimum to 35°C maximum) must be 5°F (3°C) above dew point
RELATIVE HUMIDITY:	85% maximum
SERVICEABILITY:	Foot traffic: 24 hrs. @ 72°F (22°C) @ 50% RH Heavy Service: 72 hrs. @ 72°F (22°C) @ 50% RH Full Cure: 7 days @ 72°F (22°C) @ 50% RH
MIXING RATIO:	8.9:1 resin to hardener by volume
INDUCTION:	None
POT LIFE:	4 hrs. @ 72°F (22°C)
FLASH POINT:	81°F (27°C) PMCC
VISCOSITY:	Slurry consistency
CLEAN UP:	IMPAX IXT 59 Solvent
SERVICE TEMPERATURE:	200°F (90°C) Dry Heat Resistance
SHELF LIFE:	24 months in closed container stored @ 50°F to 90°F (10°C TO 32°C)

Date

07/2006

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