

# IMPAX® 300

## Heavy Duty Nonskid Coating

### Technical Bulletin #968G

**PRODUCT DESCRIPTION:** A catalyzed epoxy nonskid coating that exhibits superior chemical resistance to acids, alkalies, solvents, fuels, etc. It is available in one grit size and six colors and is recommended for environments where a tough, chemically resistant, heavy duty nonskid is required.

**RECOMMENDED USES:** For industrial, commercial and marine applications where a heavy duty nonskid safety surface is required. Examples: platforms, ramps, steps, machinery areas and loading docks at petrochemical facilities, pulp and paper mills, mining facilities, chemical plants, etc.

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

**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 21°C (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 1.8m<sup>2</sup>/liter (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.

**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.

**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.

### RECOMMENDED SYSTEMS:

#### Concrete/Wood:

1st coat: IMPAX WATER BASED EPOXY PRIMER GRAY  
2nd coat: IMPAX 300 Nonskid

#### Steel:

1st coat: IMPAX Rust Inhibitive Primer  
2nd coat: IMPAX 300 Nonskid

#### Painted Surfaces in Sound Condition:

1 coat: IMPAX 300 Nonskid

**IMPORTANT:** When coating previously painted surfaces, always apply test patch and examine for lifting and proper intercoat adhesion. If lifting occurs, remove old coating or apply appropriate barrier coat.

## ITW PHILADELPHIA RESINS

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**MIXING & APPLICATION INSTRUCTIONS:** To mix 3.8 liters (1 gallon) 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 19 liters (5 gallon) units: Use same procedure as mixing 3.8 liter (1 gallon) units except larger blade (Jiffy Model ES or equal) is required.

With material freshly stirred to evenly disperse aggregate, pour substantial portion of mixture onto deck or floor in a band approximately 450mm to 600mm (18" to 24") wide. Using a trowel or squeegee, a 6mm (1/4") 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 material over remaining puddle and continue application as above. Nominal applied thickness is 0.8 to 1.6 mm (1/32" to 1/16"). Mixing and application process should be coordinated and continuous so wet edge is maintained insuring a uniform nonskid 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 6mm (1/4") nap, mohair roller will provide a randomly ridged profile and a bare core roller will provide a uniform ridged surface.

### TECHNICAL INFORMATION

COLOR:	Gray
GLOSS:	Not Applicable
VOLUME SOLIDS:	66% (mixed)
VOC:	<340 gms./ltr. (<2.8 lbs./gal.) (Based on mixed components)
COVERAGE:	2.8 to 3.7 m <sup>2</sup> /gal. @ 0.8 to 1.6 mm DTF (30 to 40 sq.ft./gal. @ 1/32" to 1/16" DFT)
PACKAGING:	3.8 liters (1 gal.) unit containing 3.8 liters (1 gal.) slack-filled can resin/aggregate and .95 liter(1 qt.) can hardener. 19 liters (5 gal.) unit containing 19 liters (5 gal.) slack-filled can resin/aggregate and 3.8 liters (1 gal.) can hardener.
APPLICATION TEMPERATURES:	12°C minimum to 35°C maximum (55°F minimum to 95°F maximum) *Must be 3°C (5°F) above dew point
RELATIVE HUMIDITY:	85% maximum
SERVICEABILITY:	Foot traffic: 24 hrs. @ 22°C (72°F) @ 50% RH Heavy Service: 72 hrs. @ 22°C (72°F) @ 50% RH Full Cure: 7 days @ 22°C (72°F) @ 50% RH
MIXING RATIO:	100 parts resin to 12.5 parts hardener by weight
INDUCTION:	None
POT LIFE:	2 to 3 hrs. @ 22°C (72°F)
FLASH POINT:	33°C (92°F) PMCC
VISCOSITY:	Slurry consistency
REDUCER:	Not Recommended
SERVICE TEMPERATURE:	93°C (200°F) Dry Heat Resistance
SHELF LIFE:	18 months in closed container stored @ 10°C to 32°C (50°F TO 90°F)
PRECAUTION:	Flammable - Keep away from heat and open flame. Maintain good ventilation and avoid breathing vapors. Avoid prolonged or repeated skin contact.