

IMPAX® 200

Heavy Duty Nonskid Coating

Technical Bulletin #969H

PRODUCT DESCRIPTION: A two component, moisture cured, nonskid urethane coating which is available in one grit size and six colors. It is a tough, long wearing, protective coating that provides safer footing and better traction for personnel and equipment. IMPAX 200 assures a slip resistant surface while protecting substrates from weathering and moderate chemical and petroleum contact.

RECOMMENDED USES: For industrial, commercial, marine and other markets where a heavy duty, nonskid safety surface is required. Applications include work areas, ramps, loading docks, walkways, industrial flooring, machinery spaces, steps, etc. Marine applications include aircraft carrier decks, roll-on/roll-off trailerships, drilling rigs, tow boats, fishing vessels, dredges, etc. The nonskid properties are not substantially affected by water, oil, grease, drilling mud, jet fuel, gasoline, 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 and 1 gal. water) at a rate of 1.8 m²/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 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 200 Nonskid

Steel:
1st coat: IMPAX RUST INHIBITIVE PRIMER
2nd coat: IMPAX 200 Nonskid

**Painted Surfaces
in Sound Condition:**
1 coat: IMPAX 200 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 an appropriate barrier coat.

*Check local VOC regulations before applying.

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MIXING AND APPLICATION INSTRUCTIONS: To mix 3.8 liters (1 gallon) units: Pour resin component into clean 3.8 liters (1 gallon) pail. Pour 1/2 of the aggregate component from the bag into the liquid and mix for 1/2 minute using drill and metal mixing blade (Jiffy Model HS or equal). Empty all remaining aggregate into the mixture and mix for an additional 1/2 minute or until aggregate is wet-out. To mix 19 liters (5 gallon) units: Pour resin component into clean 19 liters (5 gallon) pail. Follow above mixing procedure. Total mixing time should not exceed 2 minutes. Use electric or air mixer (250 to 500 rpm) with metal mixing blade (Jiffy Model ES or equal).

With material freshly stirred to evenly disperse aggregate, pour substantial portion of mixture onto deck or floor in a band approximately 450 mm to 600 mm (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 200 will begin to set shortly after application. Correct imperfections immediately upon application then allow coating to cure undisturbed. Allow coating to cure 8 hours with ventilation before allowing foot traffic. Allow 24 hours for full cure. Higher relative humidity provides reduced cure time. IMPAX 200 may be applied at temperatures down to 4°C (40°F). 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

COLORS:	Gray, Yellow, Red, Black
GLOSS:	Not Applicable
VOLUME SOLIDS:	66% (mixed)
VOC:	< 350 gms./ltr. (< 2.8% lbs./gal.) (Based on mixed components)
COVERAGE:	2.3 to 3.3 m ² /gal. @ 0.8 to 1.6 mm DFT (25 to 35 sq.ft./gal. @ 1/32" to 1/16" DFT)
PACKAGING:	3.8 liters (1 gal.) unit containing 1/2 gal. can resin and a 3.18 kg (7 lb.) bag of nonskid aggregate. 19 liters (5 gal.) unit containing 2-1/2 gal. can resin and a 15.9 kg (35 lb.) bag of nonskid aggregate.
APPLICATION TEMPERATURES:	4°C minimum to 32°C maximum (40°F minimum to 90°F maximum) *Must be 3°C (5°F) above dew point
RELATIVE HUMIDITY:	85% maximum
SERVICEABILITY:	Foot traffic - 8 hrs. @ 22°C (72°F) @ 70% RH Full cure - 24 hrs. @ 22°C (72°F) @ 70% RH
MIXING RATIO:	1 part resin to 1.75 parts aggregate by weight
INDUCTION:	None
POT LIFE:	1 hour @ 22°C (72°F) @ 70% RH
FLASH POINT:	25°C (77°F) SETA Closed Cup
VISCOSITY:	Slurry consistency
REDUCER:	Not Recommended
SERVICE TEMPERATURE:	90°C (200°F) Dry Heat Resistance

PRECAUTION: Flammable - Keep away from heat and open flame. Maintain good ventilation and avoid breathing vapors. Avoid prolonged or repeated skin contact. Contains toluene diisocyanate which can cause lung sensitization. Allergic respiratory reaction may occur in sensitized individuals when exposure to TDI is below TLV. Prolonged or repeated skin contact can cause dermatitis and possibly skin sensitization.