

## One-component epoxy anti-slip

Technical Bulletin # 409

**Product Description**

Single-component, epoxy ester, anti-slip floor and deck coating designed for application in areas of heavy pedestrian grade traffic. This light-duty safety coating is both easy and fast to apply and offers optimum adhesion to metal, concrete and wood surfaces. It is useable after two years in storage in unopened containers. A partially used container may be resealed and used for future use. Impax-100 is fire retardant in the cured state. It resists gasoline, oil, acids, alkali, and aliphatic solvents. Refer to ITW Resin Technologies' Chemical Resistance Table for detailed performance data.

**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 and compatibility. 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 Floors:** 1st coat: IMPAX Water Based Gray or Clear Primer  
2nd coat: IMPAX 100 Anti-Slip Coating

**Painted Surfaces**  
in Sound Condition: 1 coat: IMPAX 100 Anti-Slip Coating

**Steel:** 1st coat: Use Appropriate rust inhibitive epoxy primer  
2nd coat: IMPAX 100 Anti-Slip Coating

**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. 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.

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 anti-slip 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 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.

**ITW POLYMER TECHNOLOGIES**

130 Commerce Drive • Montgomeryville, PA 18936 • 215-855-8450 • Fax 215-855-4688



IMPAX 100 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 48 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. Keep from freezing.

**Technical Information**

- COLOR: Gray, Yellow, Red, Black
- GLOSS: N/A
- VOLUME SOLIDS: 61%
- VOC: <2.08 lbs./gal. (<250 gr/ltr)
- ESTIMATED COVERAGE: 60 sq. ft. per gallon - spray  
40 sq. ft. per gallon - trowel  
50 sq. ft. per gallon - roller
- COEFFICIENT OF FRICTION: Dry - 1.17 Wet - 1.00 (ASTM F-609)
- PACKAGING: 1 gallon kits  
5 gallon kits
- APPLICATION TEMPERATURES: 55°F minimum to 95°F maximum  
(12°C 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: 48 hrs. @ 72°F (22°C) @ 50% RH  
Full Cure: 7 days @ 72°F (22°C) @ 50% RH
- INDUCTION: None
- POT LIFE: 2 to 3 hrs. @ 72°F (22°C)
- FLASH POINT: 81°F (27°C) CC
- 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

<p><u>General:</u> Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Prior versions of this publication are invalid with the release of this version. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner. Consult your local distributor for product availability, additional product information, and technical support.</p> <p><u>Warranty:</u> ITW Polymer Technologies, a division of Illinois Works Inc., warrants that its products meet their printed specifications. This is the sole warranty. This warranty expires one year after product shipment.</p> <p><u>Warranty Claims:</u> If any product fails to meet the above, ITW Polymer Technologies will, at its option, either replace the product or refund the purchase price. ITW Polymer Technologies will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered.</p> <p><u>Disclaimer:</u> ITW Polymer Technologies makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose.</p>	<p>Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Polymer Technologies' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Polymer Technologies' election. Under no circumstances shall ITW Polymer Technologies be liable for any indirect, incidental or consequential damages.</p> <p><u>Modification of Warranty:</u> No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Polymer Technologies. No term of any purchase order shall serve to modify any provision of this document.</p> <p><u>Mediation and Arbitration:</u> If any dispute arises relating to products or product warranties, either the purchaser or ITW Polymer Technologies may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.</p>
---	---