

Technical Bulletin # 430A

Product Description

IMPAX 6700 is a two-component, high build, novolac epoxy coating for surface protection against severe chemical attack.

- High chemical resistance
- Low VOC, low odor application
- Easily applied by brush, roll, or spray

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.

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:
1st coat: IMPAX 3300 LV-N Clear Epoxy Primer
2nd coat: Use an appropriate concrete block filler
3rd coat: IMPAX 6700
4th coat: IMPAX 6700

Steel:
1st coat: Use an appropriate rust inhibitive epoxy primer
2nd coat: IMPAX 6700
3rd coat: IMPAX 6700

Painted Surfaces
in Sound Condition: 1st coat: IMPAX Water Based Epoxy Primer Clear
2nd coat: IMPAX 6700
3rd coat: IMPAX 6700

IMPORTANT: When recoating IMPAX SCS 6700, it must be done no less than 8 hours after application of the previous coat and no more than 72 hours at 72°F (22°C) @ 50% RH. If this "window" has passed, the surface of the cured IMPAX SCS 6700 must be abraded to insure adhesion of subsequent coats.

Mixing and Application Instructions

Do not mix material until all surfaces are completely prepared and ready to be coated. To mix 2 gallon units: Mechanically mix each component thoroughly before mixing together. Pour entire contents of the resin and hardener into a mixing container. Mix the two components using a Jiffy Blade model HS for two-gallon units for 3-4 minutes at 250 rpm. To mix 5 gallon units: Mechanically mix each component thoroughly before mixing together. Pour entire contents of the hardener into the pail of resin and mix the two components using a Jiffy Blade model ES for 3-4 minutes at 250 rpm. It is strongly recommended that only full units be used, that both components are thoroughly mixed, and that all material from the bottom and side of the container is mixed. We do not recommend using partial kits. Do not scrape or drain mixing containers. Do not reduce this material.

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Working out of a pan, or bucket with grid, apply the mixed material on the primed surface and spread out evenly to 14-16 mils WFT (11-13 mils DFT) with a 3/8" - 1/2" quality roller cover. Roll out any puddles. IMPAX 6700 can also be applied with airless spray equipment, such as Graco 30:1 unit @ 3,000 psi, .021" tip and 3/8" ID hose.

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

Technical Information

COLOR:	Gray
GLOSS:	Semi-Gloss
VOLUME SOLIDS:	80%
VOC:	Less than 0.95 lbs./gal (140 g/L) (Based on Mixed Components)
COVERAGE:	100 ft ² /gal @ 14-16 mils WFT/11-13 DFT (9.2 m ² /ltr. @ 356-406 microns WFT/ 279-330 microns DFT)
PACKAGING:	Five gallon unit consisting of a slack filled 5 gallon pail and 1.25 gallon jug of hardener (19 liters unit volume)
APPLICATION TEMPERATURES:	55°F minimum to 100°F maximum (13°C min. to 38°C max.) *Must be 5°F above dew point
RELATIVE HUMIDITY:	85% maximum
SERVICEABILITY:	To Touch - 6 hrs. Recoat - 8 hrs. min. @ 72°F (22°C) @ 50% RH Full Service* - 7 Days at 72°F (22°C) @ 50% RH *For 98% Sulfuric Acid full service time is 21 days @ 72°F (22°C) @ 50% RH
MIXING RATIO:	3:1 epoxy resin/hardener by volume
POT LIFE:	30 minutes @ 72°F (22°C)
FLASH POINT:	84°F PMCC (29°C)
VISCOSITY:	4,000 - 6,000 cps
CLEAN UP:	IMPAX IXT 59 Solvent
SERVICE TEMPERATURE:	180°F (82°C) Dry Heat Resistance
SHELF LIFE:	18 months unopened at 50° to 90°F (10° to 32°C)

Date

07/2006

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