

## 100% Solids, epoxy, anti-skid floor and deck coating

Technical Bulletin # 2007A

**Product Description**

AS-2500 is a 100% solids, zero VOC, two component epoxy anti-slip coating designed for the most demanding environments. AS-2500 provides superior resistance to chemicals and heavy traffic while providing safer footing and traction for rolling equipment. It is odorless and can be used in odor sensitive applications such as wineries, food processing facilities, hospitals and confined areas. Now available in a low temperature cure version for rapid return to service. The LTC hardener can be used at temperatures down to 35°F allowing for application in refrigerated areas or cold environments.

Fire retardant in the cured state, AS-2500 resists fire, most acids, alkaline, solvents, grease, oil, salt water, detergents, alcohol, gasoline, jet fuels, and other hydraulic fluids. Refer to American Safety Technologies Chemical Resistance Table for detailed performance data.

**Surface Preparation****CONCRETE**

Remove oil, grease, dirt, wax, etc., by dissolving with a commercial grade cleaner/degreaser then flush the area thoroughly with clean water and allow it to dry. Remove all paint films, laitance, and loose concrete by scarification or shot blasting. Patch any holes or significant defects with Impax 5020 Epoxy Floor Resurfacer. Smooth or glazed surfaces should be roughened and new concrete should cure at least 30 days with good ventilation prior to application. Form release agents, hardeners, sealer, etc... will interfere with adhesion and must be removed. Prime the surface with PS-100 WB Water-based primer.

**METAL**

All surfaces must be clean, dry and free of surface contamination. Remove all deposits of oil and grease using Solvent Cleaning method SP-1. All previous coating, rust and mill scale should be removed and the surface abraded to a Commercial Grade SP-6. Blasted surfaces should be primed immediately with MS-7CZ Industrial Primer.

**WOOD/FIBERGLASS**

A clean sound surface is required. Remove any dirt or oils from the surfaces with a commercial cleaner/degreaser and allow the surface to dry. Follow with sanding to remove loose or deteriorated surface and to obtain the proper surface profile. For wood prime the surface with PS-100 WB Water-based Primer. For fiberglass use the MS-7CZ Industrial Primer for the best adhesion.

**Application**

AS-2500 is designed to be applied over a primer.

1. Pre-mix base component with a mechanical mixer such as a pneumatic drill motor with a Jiffy® mixing blade. Make sure all settlement is lifted off the bottom of the container and is uniformly dispersed in the material.
2. Pour entire contents of hardener can into base material. Mix hardener and base material with a mechanical mixer such as a pneumatic drill motor with a Jiffy® mixing blade for approximately 3-5 minutes or until mixed material assumes a uniform color and appearance. Apply material immediately. No induction time is required.
3. Working pot life is approximately 1 hour at 70°F with the standard hardener (45 min. with LTC hardener). Pot life is increased at lower temperatures and decreased at higher temperatures.
4. AS-2500 can be applied at surface temperatures between 35°F and 120°F. Application is not recommended when surface temperature is above 120°F or below 35°F, curing time will be increased substantially.

**Application Techniques****ROLLER**

Rolled applications provide the most aggressive non-slip characteristics with an irregular, ridged profile.

1. Use a phenolic roller available from American Safety Technologies Inc. It is important that the rolled profile expose the maximum amount of non-slip aggregate. If aggregate is not properly exposed, the coating may become slippery when wet.
2. Pour a ribbon of AS-2500 on the surface approximately 4' long by 6" wide. Roll material in one direction only, in slow straight strokes pulling material toward you with a moderate amount of pressure until a uniform thickness is achieved. Be careful not to over-roll too many times and avoid applying the material to heavy Material applied too thickly may not cure properly. Work small sections at a time and make the final pass with the roller in one direction to give an even texture and to help eliminate lap marks.
3. Higher temperatures will shorten drying time and conversely, lower temperature and high relative humidity will lengthen drying time. Exterior applications must be protected from rain for at least 24 hours after application according to humidity. Protect from heavy or extended exposure to water, oil and chemicals for 5 to 7 days.

**SPRAY**

Sprayed applications will result in a uniform appearance with good anti-slip characteristics.

1. Specialized mastic type spray equipment is required. A recommended set-up is as follows.
  - a. A 5-gallon bottom outlet pressure tank equipped with a double regulator and an air driven agitator, and 1" I.D. outlet pipe.
  - b. 25 feet of 3/8" air hose with 3/8" female connectors at each end.
  - c. 25 feet of 3/4" material hose with 3/4" female connectors at each end.
  - d. A Binks Model 7E2 spray gun equipped with 1/4" internal air cap or a Binks Model 52-2012 (4 foot) pole gun equipped with the same fluid nozzle and air nozzle.

ITW POLYMER TECHNOLOGIES

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2. Minimum air supply required is 20 CFM at 90 lbs. pressure. Recommended pressure is 15-20 psi on material and 20-25 psi on atomization. Always keep atomization air pressure higher than pot pressure. Keep the agitator running slowly. Good coverage and film thickness will be obtained working at 18" or 24" distance from surface. Overlap strokes about 50%. Make sure of wet application. Very little abrasive rebound will be noticed at 15 psi; however, it will be more noticeable at higher pressures.
3. When temperature is above 80°F, it is advisable to flush the spray equipment with epoxy solvents every hour or so in order to prevent the possibility of any material setting up and plugging the equipment.

#### TROWEL

Troweled applications provide excellent non-slip characteristics with a rough, textured surface.

1. Use a flexible bladed smooth edge finishing trowel approximately 4 inches by 12 inches.
2. Pour a "ribbon" of AS-2500 on the surface approximately 4' long and 6" wide. Hold trowel at 45° angle to surface and spread with sweeping motion. Reverse angle of trowel for opposite stroke. Pull material toward you. To cover corners, etc. pull straight strokes using material on the trowel.

### Surface Maintenance

Maintain a clean surface to ensure that the anti-slip safety performance of AS-2500 is maximized. We recommend the following cleaning procedure.

1. Apply an all-purpose, biodegradable cleaner/degreaser, diluted with water to the surface.
2. Scrub surface with a long-handled, fiber-bristle brush or floor machine. Rinse with clean water and dry.
3. Although extremely durable, AS-2500 is not a permanent coating and will require occasional touch up, especially in heavy traffic areas.

### Standard Colors

Black, Gray, Tile Red, Safety Yellow. Custom colors are available and subject to minimum order requirements. Contact our Customer Service Department for more information at 1-800-631-7841.

### Specifications

VOC:	0.0 lbs. per gal. (0 grams/liter)
VOLUME SOLIDS (%):	100%
POT LIFE:	Standard Cure Hardener - 1 hour @ 70°F (21°C) LTC Hardener – 45 min. @ 70°F (21°C)
DRY TIME:	Standard Cure Hardener: Light Traffic - 24 hours @ 70°F (21°C) Heavy Traffic - 72 hours @ 70°F (21°C)
	LTC hardener: Light Traffic – 12-16 hours @ 70°F (21°C) Light Traffic – 36-48 hours @ 35°F (2°C) Heavy Traffic – 24 hours @ 70°F (21°C) Heavy Traffic – 72 hours @ 35°F (2°C)
ESTIMATED COVERAGE:	60 sq. ft. per gal. – spray 40 sq. ft. per gal. – trowel 20-35 sq. ft. per gal. – roller
WEIGHT PER GALLON:	17.7 lbs. per gal. (2.10 kg./liter)
FLASH POINT:	>200°F (937°C) - CC
COEFFICIENT OF FRICTION ASTM F609:	Dry - 1.10 Wet - 1.00
PACKAGING:	1 gallon kits 5 gallon kits

Date

09/2009

#### CAUTION

Read Material Safety Data Sheet before using this material. Use only with adequate cross ventilation. Keep away from extreme heat, sparks and open flame. Keep from freezing. Avoid prolonged breathing of vapors. For dizziness, seek fresh air. Avoid contact with skin. Use gloves, goggles and coveralls. In case of spillage on clothing, change clothing to prevent prolonged contact with skin. Wash contaminated clothing before reuse. In case of accidental contact with skin, wash immediately with soap and water. In case of eye contact, flush thoroughly with plenty of water and call physician. If swallowed accidentally, do not induce vomiting. Seek medical attention immediately.

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