

LOW V.O.C., rapid curing, non-slip floor and deck coating
contains KEVLAR aramid Patent No. 5,686,507

Technical Bulletin # 2006A

Product Description

AS-550 is a rapid curing, self-sealing, heavy duty, non-slip deck coating for application in slippery areas to make them safer for operation of pedestrian and rolling equipment traffic. AS-550 was developed for use in marine and industrial environments to provide a durable surface with the highest possible non-slip profile. Able to cure rapidly at 70°F, withstand heavy traffic in 24 hours, and cure down to 40°F in 48-72 hours make AS-550 suitable for application where minimal down time is important.

Formulated with high performance epoxy resins to provide optimum toughness and corrosion resistance, AS-550 is fire retardant in the cured state and is resistant to acids, alkaliine, solvents, grease, oil, salt water, detergents, alcohol, gasoline, jet fuels, and other hydraulic fluids. It is unaffected by extreme temperature changes and because of its tenacious bond, rust will not creep under the coating if fractured. 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-550 is designed to be applied over a primer or sealer.

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. Scrape bottom and sides while mixing. Apply material immediately. No induction time is required.
3. Working pot life is approximately 45 minutes at 70°F. Pot life is increased at lower temperatures and decreased at higher temperatures.
4. AS-550 can be applied at surface temperatures between 40°F and 100°F. Application is not recommended when surface temperature is above 100°F or below 40°F. At below 40°F and above 100°F material may become difficult to apply.

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-550 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 too 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 non-slip characteristics.

1. AS-550 should be thinned with 1 to 3 pints of xylene per 5 gallons of material for good sprayability. Care must be taken not to excessively thin material. Excessive thinning could result in grit not remaining properly in suspension.
2. 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" (#45) fluid nozzle and a 1/4" internal air cap or a Binks Model 52-2012 (4 foot) pole gun equipped with the same fluid nozzle and air nozzle.

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3. 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 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. 4. 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-550 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-550 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-550 is not a permanent coating and will require occasional touch up, especially in heavy traffic areas.

Standard Colors

Black, Gray, Tile Red and 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:	0.6 lbs. per gal. (80 grams/liter)
VOLUME SOLIDS (%):	90%
POT LIFE:	45 minutes @ 70°F in 1 gallon
DRY TIME:	Light Traffic - 12-16 hours @ 70°F Light Traffic - 36-48 hours @ 35°F Heavy Traffic - 24 hours @ 70°F Heavy Traffic - 72 hours @ 35°F
ESTIMATED COVERAGE:	60 sq. ft. per gallon – spray 45 sq. ft. per gal. – trowel 30 sq. ft. per gal. – roller
WEIGHT PER GALLON:	16 lbs. per gal. (1.92 kg./liter)
FLASH POINT:	108°F (42°C) - CC
COEFFICIENT OF FRICTION ASTM F609:	Dry - 0.88 Wet - 0.93
PACKAGING:	1 gallon kits 5 gallon kits
SHELF LIFE:	24 Months

Date

10/2010

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