

Technical Bulletin # 2045

Product Description

AS-150 HAPS Free is a single component, epoxy ester anti-slip floor and deck coating designed for application in areas of heavy pedestrian grade traffic. This VOC compliant safety coating is both easy and fast to apply and offers optimum adhesion to metal concrete and wood surfaces. The HAPS Free formulation meets VOC requirements for all 50 States including the South Coast Air Quality Management District (SCAQMD) of California. In addition as part of American Safety Technologies commitment to preserve natural resources the AS-150 contains a significant amount of unique sustainable/renewable ingredients in its formulation.

AS-150 HAPS Free coating is usable after two years if stored in an unopened container. A partially used container may be resealed and saved for future use.

AS-150 HAPS Free coating is fire retardant in its cured state. It resists gasoline, oil, acids, alkalis, and aliphatic solvents. 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 Notes

AS-150 HAPS Free coating is designed to be applied over a primer or sealer.

1. Thoroughly mix contents preferably with a mechanical mixer such as a pneumatic drill motor with a Jiffy® mixing blade until mixed material assumes a uniform color and appearance.
2. AS-150 HAPS Free coating should be applied at surface temperatures between 50°F and 120°F and applications outside that range are not recommended. Below 50°F, curing time will increase substantially.
3. Exterior applications must be protected from rain for at least 12 to 24 hours after application according to humidity. Protect from heavy or extended exposure to water, oil and chemicals for 5 to 7 days.

Application Techniques

ROLLER APPLICATION (Provides aggressive anti-slip characteristics with an irregular, ridged profile)

1. Use a phenolic core roller available from American Safety Technologies Inc. It is important that the rolled profile expose the maximum amount of anti-slip aggregate. If aggregate is not properly exposed, the coating may become slippery when wet.
2. Pour a "ribbon" of AS-150 HAPS Free coating on the surface approximately 2' long and 6" wide. Roll material in one direction only, in slow straight strokes pulling material toward you with a moderate amount of pressure. Do not over-roll too many times or press down too heavily. Be careful that material does not build up too thickly along welds (roll across welds, not along them). Material applied too thick may not properly cure.

TROWEL APPLICATION (Provides excellent anti-slip characteristics with a rough, textured surface)

1. Use a smooth edged flexible plasterer's finishing trowel approximately 4 inches by 12 inches.
2. Pour a "ribbon" of AS-150 HAPS Free coating on the surface approximately 2' long and 6" wide.
3. Hold trowel at 45° angle to surface and spread with sweeping motion. Pull material toward you. To cover corners, etc., pull straight strokes using material on the trowel. Trowel across welds to avoid too thick an application.

SPRAY APPLICATION (Gives a uniform appearance with good anti-slip characteristics)

1. AS-150 HAPS Free coating should not be thinned.
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.
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.

Surface Maintenance

Maintain a clean surface to ensure the anti-slip performance of the AS-150 coating is maximized. The following cleaning procedure is recommended.

1. Apply an all purpose, biodegradable cleaner/degreaser that can be mixed with water to the surface.
2. Scrub surface with a long-handled, fiber bristled brush or floor machine.
3. Rinse with clean water and dry. Foreign matter such as chewing gum, should be removed with a scraper or putty knife and then surface should be cleaned following above procedure.

Although extremely durable, AS-150 HAPS Free coating is not a permanent coating and will require occasional touch up, especially in heavy traffic areas.

Specifications

VOC:	0.82 lbs. per gal. (98 grams/liter)
VOLUME SOLIDS (%):	61%
DRY TIME:	Light Traffic - 12 hours @ 70°F (21°C) Heavy Traffic - 72 hours @ 70°F (21°C)
ESTIMATED COVERAGE:	60 sq. ft. per gallon – spray 40 sq. ft. per gal. – trowel 50 sq. ft. per gal. – roller
WEIGHT PER GALLON:	14.8 lbs. per gal. (1.77 kg./liter)
FLASH POINT:	102°F (39°C) - CC
COEFFICIENT OF FRICTION ASTM F609:	Dry - 1.17 Wet - 1.00
PACKAGING:	1 gallon kits 5 gallon kits

Standard colors: Black, Gray, Tile Red, Safety Yellow, Neutral Tint Base and White Tint base.

Custom colors are available and subject to minimum order requirement. Contact our customer services dept. @ 800-631-7841 for more details.

Only use an approved tinting system and pigment when adding colorants. The white tint base should receive no more than 8 fluid oz. of tint and the neutral base 12 fluid oz. high amount of colorants can affect viscosity, cure time and ultimate strength of the product. After colorant has been added, material must be shaken for a minimum of 5 minutes to blend in pigment. Premixing with a drill prior to application is also recommended. A test area should be applied so color and appearance can be verified. Deep color may require additional cost to hide.

Date 03/2010

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.

The user of this product is responsible for making its own evaluation and tests regarding the capabilities, safety, utility, suitability and application of the product, and assumes all risks and liabilities resulting from the use or application of the product, whether used alone or with other products. American Safety Technologies (herein referenced to as the COMPANY) warrants only that the product conforms to the specifications contained in product Technical Data Sheets

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