

Single-component, non-slip floor and deck coating

Technical Bulletin # 2003

Product Description

AS-150 Low V.O.C. is a single component, epoxy ester non-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 with the appropriate primer. AS-150 Low V.O.C. is usable after two years in storage in unopened containers. A partially used container may be resealed and saved for future use. AS-150 Low V.O.C. is fire retardant in the cured state. It resists gasoline, oil, acids, alkaline 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 AS-5000 Epoxy Patching compound. 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 or EP-100.

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-5C 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-5C Industrial Primer for the best adhesion.

Application

AS-150 Low V.O.C. 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 Low V.O.C. can be applied at surface temperatures between 50°F and 120°F. Application is not recommended when surface temperature is above 120°F or below 50°F. At below 50°F, curing time will increase 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. 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-150 Low V.O.C. 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.

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-150 on the surface approximately 2' 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.

SPRAY (Excellent anti-slip characteristics)

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

ITW POLYMER TECHNOLOGIES

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1. AS-150 should not be thinned. 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 2-gallon or 5-gallon bottom outlet pressure tank equipped with a double regulator and an air driven agitator, with a 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 (sp.) 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 the agitator running slowly. Good coverage and film thickness will be obtained working at 18" or 24" distance from surface. Overlap strokes about 50% maintaining a wet edge. Very little abrasive rebound will be noticed at 15 psi; however, it will be more noticeable at higher pressure.
4. When temperature is above 80 F, it is advisable to flush the spray equipment with water every 2 to 3 hours in order to prevent the possibility of any material setting up and plugging the equipment.

Surface Maintenance

Maintain a clean surface to ensure that the anti-slip safety performance of AS-150 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-150 Low VOC is not a permanent coating and will require occasional touch up, especially in heavy traffic areas.

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

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

Use 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.

Specifications

VOC:	2.08 lbs. per gal. (250 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:	14.5 lbs. per gal. (1.74 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

Date

07/2006

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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