



TECHNICAL DATA SHEET – AS-2500 SC/LTC

Revised: 8/2023

PRODUCT DESCRIPTION

AS-2500 is a 100% solid, two component epoxy anti-slip coating that provides superior resistance to chemicals and wear while providing safer footing and traction for rolling equipment. It contains no solvent allowing its use in odor sensitive applications such as wineries, food processing facilities, hospitals and confined areas. Also, available in a low temperature cure (LTC) version for use in cold environments and applications down to 35°F.

AS-2500 resists most acids, alkalis, solvents, grease, oil, salt water, detergents, alcohol, gasoline, jet fuels, and 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. 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 PolySpec 100EX.

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. Next, the surface must be mechanically blasted to a NACE 2, Near White Metal blast with a 2-4 mil anchor profile ensuring that previous coatings, rust, and mil scale (if any) are thoroughly removed. Blasted surfaces should be primed immediately

with MS-7CZ Industrial Primer at 2-4 mils WFT.

For applications meeting SCAQMD requirements over metal use MS-8CZ 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 PolySpec 100EX. For fiberglass use the MS-7CZ Industrial Primer for the best adhesion. For applications meeting SCAQMD requirements over fiberglass use MS-8CZ industrial primer.

APPLICATION TECHNIQUES

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

1. Thoroughly pre-mix base component with a mechanical mixer such as a pneumatic drill motor with a Jiffy® mixing blade making sure all settlement is lifted off the bottom of the container and is uniformly dispersed and assumes a uniform color and appearance.
2. Pour entire contents of hardener can into base material. Mix hardener and base material with a Jiffy® mixing blade for approximately 3-5 minutes scraping bottom and side of the can until mixed material assumes a uniform color and appearance. No induction time is required.
3. **AS-2500** should be applied at surface temperatures between 35°F (LTC only) and 120°F and applications outside that range are not recommended. Below 50°F, curing time will increase substantially.
4. 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.

ROLLER: Rolled applications provide the most aggressive non-slip

AS-2500 SC/LTC

100% SOLID EPOXY ANTI-SLIP FLOOR AND DECK COATING

characteristics with an irregular, ridged profile.

- Using a phenolic roller 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.
- Pour a “ribbon” of **AS-2500** 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 with them). Material applied too thickly may not properly cure.

TROWEL: Trowel applications provide excellent non-slip characteristics with a rough, textured surface.

- Use a flexible bladed plasterer’s finishing trowel approximately 4 inches by 12 inches. Use smooth edges, not notched.
- Pour a ribbon of **AS-2500** 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. Trowel across welds to avoid too thick an application.

SPRAY: Sprayed applications will result in a uniform appearance with good non-slip characteristics.

- Contact ITW Polymers Sealants North America, Inc. for thinning instructions.
- Specialized mastic type spray equipment is required. A recommended set-up is as follows:
 - A 5-gallon bottom outlet pressure tank equipped with a double regulator and an air driven agitator, and 1” I.D. outlet pipe.
 - 25 feet of 3/8” air hose with 3/8” female connectors at each end.
 - 25 feet of 3/4” material hose with 3/4” female connectors at each end.
 - 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.
- 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 with constant agitation. Good coverage and film thickness will be obtained working at 18” - 24” 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.
- 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.

SURFACE MAINTENANCE

Maintain a clean surface to ensure the anti-slip performance of the **AS-2500** is maximized. The following cleaning procedure is recommended.

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

*Although extremely durable, **AS-2500** is not a permanent coating and will require occasional touch up, especially in heavy traffic areas.*

PRODUCT SPECIFICATIONS

V.O.C	0.0 lbs. per gal. (0 grams/liter)
VOLUME SOLIDS - %	100%
POT LIFE	Standard Cure: 1 hour @ 70°F (21°C) Low Temp Cure: 45 min. @ 70°F (21°C)
DRY TIME	Standard Cure: Light Traffic - 24 hr @ 70°F (21°C) Heavy Traffic - 72 hr @ 70°F (21°C) Low Temp Cure: Light Traffic - 16 hr @ 70°F (21°C) Light Traffic - 48 hr @ 35°F (2°C) Heavy Traffic - 24 hr @ 70°F (21°C) Heavy Traffic - 72 hr @ 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 (93°C) - CC
COEFFICIENT OF FRICTION ASTM F609	Dry - 1.10 Wet - 1.00
PACKAGING	1 gallon kits 5 gallon kits
SHELF-LIFE	2 years in unopened container
STANDARD COLORS	Black, Gray and Safety Yellow