



AS-175 – TECHNICAL BULLETIN #2004A

Revised: 12/2016

PRODUCT DESCRIPTION

AS-175 is a two-part water-borne epoxy coating combined with a tough fine grain abrasive to produce a self-sealing, non-slip floor and deck coating. Enhanced clean-ability, chemical resistance and good coverage rate are but a few of the reasons **AS-175** is the first choice for low-profile applications.

AS-175 is ideal for recreation areas as well as industrial and institutional facilities where use of a water-based coating is desirable.

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 PolySpec® RezRok 105 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.

AS-175

NON-SLIP FLOOR AND DECK COATING

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. Abrade the surface in accordance 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 TECHNIQUES

AS-175 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 or until mixed material assumes a uniform color and appearance. No induction time is required.
3. **AS-175** should be applied at surface temperatures between 50°F and 120°F and applications outside that range are not recommended. Exterior applications must be protected from rain for at least 24 hours after application. 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 characteristics with an irregular, ridged profile.

4. Using a phenolic core roller it is important that the rolled profile expose the maximum amount of nonslip aggregate. If the aggregate is not properly exposed the coating may become slippery when wet.
5. Pour a ribbon of **AS-175** 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. Material applied too thickly may not properly cure.
6. 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. Rollers should be washed or changed after 1 to 1.5 hours of use. Light colors will hide contrasting colors better if applied in 2 coats. For second coat, use bristle roller; allow minimum of 4 hours between coats.

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

1. **AS-175** should not be thinned. Thinning could result in grit not remaining properly in suspension. 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.
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 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 pressure.
3. When temperature is above 80°F, it is advisable to flush the spray equipment with water 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-175** is maximized.

The following cleaning procedure is recommended:

1. 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.
2. Scrub surface with a long-handled, fiber bristled brush or floor machine.
3. Rinse with clean water and dry.

Although extremely durable, **AS-175** is not a permanent coating and will require occasional touch up, especially in heavy traffic areas.

PRODUCT SPECIFICATIONS

V.O.C	0.5 lbs. per gallon (60 grams/liter)
VOLUME SOLIDS - %	63%
POT LIFE	1 hour @ 70°F (21°C)
DRY TIME	Light Traffic - 24 hours @ 70°F (21°C) Heavy Traffic - 72 hours @ 70°F (21°C)
ESTIMATED COVERAGE	90 sq. ft. per gallon – roller 120 sq. ft. per gallon – spray
WEIGHT PER GALLON	12.2 lbs. per gallon (1.47 kg/liter)
FLASH POINT	N/A
COEFFICIENT OF FRICTION ASTM F609	Dry - 0.78 Wet - 0.86
PACKAGING	1 gallon kits
SHELF-LIFE	2 years in unopened container
STANDARD COLORS	Black, Lt. Gray, Beige, Neutral & White Tint base

APPLICATION NOTES

Only use an approved water-based tinting system. 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.

General: Every reasonable effort is made to insure the technical information and recommendations on these data pages are true and accurate to the best of our knowledge at the date of issuance. However, this information is subject to change without notice. Prior versions of this publication are invalid with the release of this version. Products and information are intended for use by qualified applicators that have the required background, technical knowledge, and equipment to perform said tasks in a satisfactory manner. Consult your local distributor for product availability, additional product information, and technical support. **Warranty:** ITW Engineered Polymers, a division of Illinois Tool Works Inc., warrants that its products meet their printed specifications. This is the sole warranty. This warranty expires one year after product shipment. **Warranty Claims:** If any product fails to meet the above, ITW Engineered Polymers will, at its option, either replace the product or refund the purchase price. ITW Engineered Polymers will have no other liability for breach of warranty, negligence, or otherwise. All warranty claims must be made in writing within one year of the date of shipment. No other claims will be considered. **Disclaimer:** ITW Engineered Polymers makes no other warranty, expressed or implied, and specifically disclaims any warranty of merchantability or fitness for a particular purpose. Suggestions concerning the use of products are not warranties. The purchaser assumes the responsibility for determining suitability of products and appropriate use. ITW Engineered Polymers' sole liability, for breach of warranty, negligence or otherwise, shall be the replacement of product or refund of the purchase price, at ITW Engineered Polymers' election. Under no circumstances shall ITW Engineered Polymers be liable for any indirect, incidental or consequential damages. **Modification of Warranty:** No distributor or sales representative has the authority to change the above provisions. No change in the above provisions will be valid unless in writing and signed by an officer or the Technical Director of ITW Engineered Polymers. No term of any purchase order shall serve to modify any provision of this document. **Mediation and Arbitration:** If any dispute arises relating to products or product warranties, either the purchaser or ITW Engineered Polymers may a) initiate mediation under the then current Center for Public Resources (CPR) Model Procedure for Mediation of Business Disputes, or b) initiate a non-binding arbitration under the rules of the American Arbitration Association for the resolution of commercial disputes.



Authorized Distributor of
ITW Engineered Polymers