RUST-OLEUM®

AS9100 SYSTEM
ANTI-SLIP HIGH PERFORMANCE EPOXY

DESCRIPTION AND USES

Anti-slip, vehicular grade two-component epoxy.

Anti-slip, low VOC epoxy coating for application on concrete or metal in slippery areas subject to foot or heavy vehicle traffic. Use on ramps, walkways, loading docks or wherever an extremely tough anti-slip finish is desired.

PRODUCTS

AS9144	Safety Yellow
AS9182	Silver Gray
AS9168	Tile Red
AS9186	Navy Gray
AS9171	Dunes Tan

PACKAGING

1 gallon kit

APPEARANCE

Flat, anti-slip finish

RECOMMENDED PRIMER

Use 9100 System High Performance Epoxy with 9101 Activator. (for metal substrates)

PRODUCT APPLICATION

SURFACE PREPARATION

NEW, UNCOATED CONCRETE: Remove oil, dirt and other chemical contaminants by cleaning with Industrial Pure Strength® 3599 Cleaner/Degreaser, detergent or other suitable cleaner. Rinse with water. Etch concrete with 108 Cleaning & Etching Solution. Rinse thoroughly and immediately, and allow to dry. New concrete should be allowed to cure for 30 days before application of any coating. If there is any doubt about the dryness of the concrete, conduct a test by simply placing a weighted rubber mat, plastic sheet or other non-porous material on the surface for 24 hours. Check the underside of the mat and concrete for signs of moisture. The substrate will be darker if damp. If moisture is found, allow additional drying time (10-14 days) and repeat the test. If moisture persists, the concrete surface cannot be coated. Very dense, non-porous or chemically treated concrete may require abrasive blasting or sanding to assure proper coating adhesion. Determine porosity by pouring one ounce of water onto the concrete. If water soaks in, the surface is porous enough for coating. If water beads up on the concrete, the surface is not porous and treatment is warranted. The presence of laitance (fine white particles) will also require abrasive blasting, sanding or abrading to assure removal.

PREVIOUSLY COATED CONCRETE: Remove loose dirt, dust and paint by sweeping or vacuuming. Remove grease, oil, floor compound or wax as indicated above under **new, uncoated concrete**. Very glossy or hard coatings should be lightly sanded to insure maximum adhesion. Concrete floor areas which require patching should be free of dirt, oil, grease, and other chemical contaminants as indicated above under **new, uncoated concrete**. Loose cement and deteriorated previous paint should be removed by Hand Tool or Power Tool cleaning. The 5499 Concrete Patching Compound can then be trowel applied and allowed to cure 4 hours before applying a coating.

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PRODUCT APPLICATION (cont.)

METAL: Remove oil, dirt, grease and other chemical contaminants by cleaning with Industrial Pure Strength® 3599 Cleaner/Degreaser, detergent, or other suitable cleaner. Rinse thoroughly with water and allow to dry. Loose rust, mill scale and deteriorated previous coatings must be removed by Hand Tool (SSPC-SP-2) or Power Tool (SSPC-SP-3) cleaning. A brush-off abrasive blast (SSPC-SP-7) may be used as an alternative to scraping and wire brushing. Heavily rusted areas may require a Commercial Grade Blast (SSPC-SP-6) to assure maximum coating performance. Prime the surface with 9100 System High Performance Epoxy (with 9101 activator). Allow 16-72 hours for the system to cure. Apply the desired AS9100 System finish coat.

APPLICATION

Apply only when air and surface temperatures are between 50-100°F (10-38°C) and surface is at least 5°F above the dew point. Mix base component with mechanical mixer using a Hanson mixing blade until any settled material is lifted off the bottom of the can and the material assumes a uniform appearance. Pour contents of AS91 activator can into the base component container. Mix thoroughly for 3-5 minutes until AS91 activator is uniformly dispersed. Hand mixing is not adequate and may result in improper or inadequate cure. Use of a phenolic core roller (Rust-Oleum roller #6697) will expose the maximum amount of anti-slip aggregate, resulting in a highly ridged, irregular profile. If this is not achieved, the coating may become slippery when wet. Pour the product on the surface in a stripe approximately 2' long and 6" wide. Roll material in one direction only, pulling material toward you in slow straight strokes with a moderate amount of pressure. **Do not** over-roll or press down too heavily on the roller in an attempt to create a smooth appearance; this will adversely affect the creation of the appropriate ridged profile and the desired anti-slip characteristics. Roll across welds, not along them. Material applied too thickly may not properly cure. Dry time may be adversely affected by extremely high or low temperature or high relative humidity. Protect applications from moisture for 12 to 24 hours after application, protect from heavy or extended exposure to water, oil and chemicals for 5-7 days.

PRODUCT APPLICATION (cont.)

SURFACE MAINTENANCE

Maintain a clean surface to ensure that the anti-slip performance is maximized. For general purpose cleaning, use Industrial Pure Strength® 3590 Cleaner/Degreaser, detergent or other suitable cleaner. Scrub the surface with a stiff-bristled brush or broom. Rinse with clean water and allow to dry. Periodic touch up may be necessary in heavy traffic areas.

THINNING

Do not thin this product.

CLEAN-UP

160 Thinner

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PHYSICAL PROPERTIES

Resin Type		Polyamine converted epoxy
Pigment Type		Varies with color
Solvents		Xylene, propylene glycol monomethyl ether
Weight*	**Per Gallon**	14.1-15.2 lbs.
	Per Liter	1.7-1.8 kg.
Solids*	**By Weight**	80%
	By Volume	62%
Volatile Organic Compounds*		<250 g./l. (2.08 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		17-25 mils (425-625µ)
Wet Film to Achieve DFT		27-40 mils (675-1,000µ) unthinned material Note: film thickness may be difficult to determine because of ridged profile
Practical Coverage at Recommended DFT (assumes 15% material loss)		40-60 sq.ft./gal. (1.0-1.5 m^2/l.)
Coeffecient of friction		Dry: 1.05; Wet: 1.05
Mixing Ratio		9.6:1 base to activator (by volume)**
Induction Period		None
Pot Life @ 70-80°F & 50% RH		4 hours
Dry Times at 70-80°F (21-27°C) and 50% Rel. Hum.	**Light traffic**	12 hours
	Vehicle traffic	72 hours
Shelf Life		5 years (unopened containers)
Specification and Performance Alternatives		USDA acceptable
Safety Information	**Flash Point**	81°F (27°C) Setaflash
	Contains	No lead has been deliberately added.
	Warning!	**FLAMMABLE LIQUID AND VAPOR. HARMFUL IF INHALED. CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. MAY CAUSE ALLERGIC SKIN REACTION. FOR INDUSTRIAL OR COMMERCIAL USE ONLY. KEEP OUT OF REACH OF CHILDREN. SEE THE PRODUCT MATERIAL SAFETY DATA SHEET (MSDS) AND LABEL WARNINGS FOR ADDITIONAL SAFETY INFORMATION.**

*Activated material

**Use only AS9100 Activator with AS9100

Calculated values are shown and may vary slightly from the actual manufactured material.

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RUST-OLEUM®
INDUSTRIAL BRANDS

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