RUST-OLEUM®

AS5400 SYSTEM
ANTI-SLIP ONE STEP EPOXY

DESCRIPTION AND USES

A single-component epoxy-based anti-slip floor coating.

This coating is designed for use on concrete floors, aisles, walkways, stairs, areas around machinery, or doorways subject to heavy foot or light vehicle traffic, where a coarse anti-slip safety finish is desired. It may also be used on metal stairs or other metal surfaces where safety is a concern. Its ridged profile offers aggressive anti-slip characteristics in a one-component, one-step application.

APPEARANCE

Flat, textured, anti-slip finish

PRODUCTS

AS5444	Safety Yellow
AS5471	Dunes Tan
AS5482	Silver Gray
AS5468	Tile Red
AS5479	Black
AS5486	Navy Gray

RECOMMENDED PRIMER

For metal substrates, use 9100 System DTM Epoxy Mastic.

PACKAGING

1-gallon containers

PRODUCT APPLICATION

SURFACE PREPARATION

NEW, UNCOATED CONCRETE: Remove oil, dirt, grease and other chemical contaminants by cleaning with Pure Strength® 3599 Industrial Cleaner/Degreaser, detergent, or other suitable cleaner. Rinse with water. Etch concrete with 108 Cleaning & Etching Solution. Rinse thoroughly, 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 nonporous 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 test. If moisture persists, the concrete surface cannot be coated.

Very dense, nonporous or chemically treated concrete may require abrasive blasting 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 or abrading to assure removal.

CONCRETE PREVIOUSLY COATED WITH AS5400: Pure Strength® 3599 Industrial Cleaner/Degreaser. Rinse with water and allow to dry.

CONCRETE PREVIOUSLY COATED WITH OTHER COATINGS: Remove loose dirt, dust and paint by sweeping or vacuum cleaning. Remove grease, oil, floor compound or wax as indicated above.

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PRODUCT APPLICATION (cont.)

METAL: Remove oil, dirt, grease and other chemical contaminants by cleaning with Pure Strength® 3599 Industrial 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 DTM Epoxy Mastic, (must use the 9101 Activator). Allow 16-72 hours for the system to cure. Apply the desired AS5400 System finish coat.

APPLICATION

Apply only when air and surface temperatures are between 50°-100°F and surface is at least 5°F above dew point. Thoroughly mix contents of the can with a mechanical mixer, such as a pneumatic drill motor with a Hanson mixing blade, until mixed material assumes a uniform color and appearance. Use of a phenolic core roller, such as Rust-Oleum roller 6697005, 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 long 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 high or low temperatures or high relative humidity. Protect applications from moisture for 12 to 24 hours. Protect from heavy or extended exposure to water, oil and chemicals for 5 to 7 days.

CLEANUP

Use 160 Thinner for cleanup only. Do not thin this product.

PRODUCT APPLICATION (cont.)

SURFACE MAINTENANCE

Maintain a clean surface to ensure that the anti-slip safety performance is maximized.

For general purpose cleaning, use 3500 System Pure Strength® Cleaner/Degreaser, detergent, or other suitable cleaner. Scrub the surface with a stiff-bristled brush, broom, or use a floor machine. Rinse with clean water and allow to dry. Periodic touch up may be necessary in heavy traffic areas.

AS5400 SYSTEM ANTI-SLIP ONE STEP EPOXY

PHYSICAL PROPERTIES

		AS5400 SYSTEM ANTI-SLIP ONE STEP EPOXY
Resin Type		Epoxy ester
Pigment Type		Varies with color
Solvents		Xylene and propylene glycol monomethyl ether
Weight	**Per Gallon**	13.7 - 14.5 lbs.
	Per Liter	—
Solids	**By Weight**	18-20%
	By Volume	60 - 62%
Volatile Organic Compounds (activated material)		Less than 340 g/l (2.8 lbs/gal)
Recommended Dry Film Thickness (DFT) per coat		17 - 20 mils (425-500 µ)
Wet Film to Achieve DFT		30 - 35 mils (750-875 µ)
Practical Coverage at Recommended DFT (assumes 15% material loss)		50 sq.ft./gal (1.23 m^2/l) NOTE: coverage will be reduced when applying over porous concrete.
Coefficient of Friction		Dry: 1.17, Wet: 1.00
Dry Times at 70°F (21°C) and 50% Relative Humidity	**Heavy Traffic**	24 hours
	Recoat	Minimum of 12 hours
Shelf Life		2 years minimum. (A partially used container may be resealed and saved for future use.)
Surface and Performance Alternatives		USDA Acceptable
Safety Information	**Flash Point**	81°F (27°C) (PMCC)
	Warning!	**WARNING! FLAMMABLE. VAPOR HARMFUL. CAUSES NOSE, THROAT, 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) FOR ADDITIONAL SAFETY INFORMATION**

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

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RUST-OLEUM®
INDUSTRIAL BRANDS

Rust-Oleum Corporation
11 Hawthorn Parkway
Vernon Hills, Illinois 60061
An RPM Company

Phone: 877•385•8155
www.rustoleum.com/industrial

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