



SIERRA™ S60 WATER-BASED EPOXY MAINTENANCE COATING

DESCRIPTION AND USES

The S60 Water-Based Epoxy Maintenance Coating is a low VOC, low HAP, two component epoxy that is suitable for use on both floors and vertical surfaces.

This water-based epoxy finish is designed for general maintenance use in a moderate industrial environment. It can be used on steel, non-ferrous, concrete, masonry, and previously coated surfaces. Since this coating is very low odor during application, it is ideal for use in schools, healthcare facilities, food service areas, office buildings, hotels or in any area where odors are an issue. The durable epoxy finish is ideal for walls, floors, and other surfaces subjected to frequent wash downs and cleaning. This coating is not suitable for continuous water immersion service. On steel surface use Sierra S70 Water-based Epoxy Primer to optimize corrosion protection.

Sierra S60 complies with USDA FSIS regulatory sanitation performance standards for food establishment facilities. This coating is impervious to moisture and easily cleaned and sanitized.

PRODUCTS

NOTE: Each kit contains a short filled gallon of base component (Part 2) and a short filled gallon of #248284 activator (Part 1). When combined (and tinted, if necessary) the final yield is one full gallon. Order product by kit number. Partial kits should not be mixed.

KIT NUMBER	DESCRIPTION (Gloss Finish)
248285	Stone Gray
248287	OSHA Safety Red
248288	OSHA Safety Yellow
248291	OSHA Safety Blue
248289	Oyster White
248290	Black
251173	Dunes Tan
251212	Classic Gray

1 Gallon	Part 2 Base (Gloss Finish)
248277	Stone Gray
208076	Tile Red
248279	OSHA Safety Red
248280	OSHA Safety Yellow
248283	OSHA Safety Blue
248281	Oyster White
248282	Black
208078	Dunes Tan

PRODUCTS (cont.)

1 Gallon	5 Gallon Pail	Part 2 Base (Gloss Finish)
208072	208073	Classic Gray
248273	268554*	White Pastel Tint Base
248274	----	Tint Base
248275	----	Deep Tint Base
248276	----	Accent Tint Base
208066	----	Clear

1 Gallon	Part 2 Base (Satin Finish)
208090	Classic Gray
208084	Clear
282602	White Pastel Tint Base
282601	Deep Tint Base
282600	Accent Tint Base

1 Gallon	5 Gallon Pail	Part 1 Activator
283742	----	Satin
248284	208087	Gloss

*Made-To-Order only. Contact Rust-Oleum Customer Service for details.

NOTE: Base component (Part 2) containers are short filled to allow for the addition of the Activator (Part 1), and for tint bases, addition of the colorant and the Activator. Activators are not interchangeable.

COMPANION PRODUCTS

Sierra S70 Water-based Epoxy Primer (Non-floor applications)
UltraWear Anti-Slip Additive 213898

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Krud Kutter® Cleaner Degreaser, commercial detergent or other suitable cleaner. Mold and mildew must be cleaned with a chlorinated cleaner or bleach solution. Rinse thoroughly with fresh water and allow to fully dry. All surfaces must be dry at time of application.

STEEL: At minimum, Hand Tool (SSPC-SP-2) or Power Tool (SSPC-SP-3) clean to remove all loose rust, mill scale, and deteriorated previous coatings. If abrasive blast cleaning is done, the blast profile should not exceed 1-2 mils (25-50µ). Abrasive blast cleaned steel requires two coats of primer.



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PRODUCT APPLICATION (cont.)

SURFACE PREPARATION (cont.)

NEW, UNCOATED CONCRETE: New concrete should be allowed to cure for 30 days before application of any coating. Surfaces must be clean, dry and sound with no contaminants that would impede adhesion. Remove oil, dirt, grease and other contaminants by cleaning with Krud Kutter Original Cleaner Degreaser, or other suitable cleaner. Rinse with water. Pressure washing with Krud Kutter Original Cleaner or abrasive blasting may be necessary to prepare the surface.

NEW and UNCOATED CONCRETE FLOORS: New concrete should be allowed to cure for 30 days before application of any coating. The concrete must be structurally sound, dry, and free of grease, oils, dust, curing compounds and other coatings or contaminants. Surface laitance must be removed. 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 per ASTM D4263 Standard. If moisture is found, then it is recommended that the concrete floor be tested for rising moisture vapor emission rates (MVER). Rising moisture vapor emission rate must not exceed 3 lb. per 1000 sq. ft. over a 24 hour period as measured by calcium chloride test method ASTM F-1869 Standard. The preferred method of surface preparation is to mechanically abrade the floor by diamond grinding to achieve a final 80–120 grit finish or ICRI CSP Level 2 profile.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be previously abraded to create a surface profile.

TINTING

The S60 tint bases can be tinted with COLORTREND® PLUS™ 808, COLORTREND® 888 or other high quality water-based universal colorants. Adding colorants may add VOCs. If used at the recommended levels, the VOC will not exceed 100 g/l.

TINT BASE MAXIMUM COLORANT PER GALLON

QUANTITY	DESCRIPTION
2 Oz.	White and Satin Pastel Base
4 Oz.	Gloss Tint Base
8 Oz.	Gloss and Satin Deep Tint Base
12 Oz.	Gloss and Satin Accent Tint Base

MIXING

Premix Part 2 base component to re-disperse settled pigment before adding Part 1 activator component. Thoroughly mix for 3-5 minutes.

THINNING

If needed, thin with fresh water. Do not exceed 4 fl. oz./gal.

PRODUCT APPLICATION (cont.)

APPLICATION

Apply only when air and surface temperatures are between 50-100°F (10-38°C) and surface temperature is at least 5°F above dew point. Ensure fresh air entry during application and drying.

FLOORS: Apply by roller using a good quality 3/8" synthetic nap cover. Ensure fresh air entry during application and drying.

On new or uncoated concrete, a minimum of two coats of product should be applied. The first coat may be applied by roller, spray, or spread out using a rubber squeegee, then back roll to smooth out the finish. This coating can tolerate application to damp concrete; however, conditions must be favorable to allow the moisture to evaporate. Apply the second coat by roller. **Recoat previously coated floors by roller only.**

NOTE: For line striping, can be performed by roller or airless line striping equipment.

Applications done at low humidity conditions (less than 15%) may result in lower initial gloss; however, this will not have any effect on coating performance. Allow coated floor to cure 7 days before mopping or washing. The dry time of the coating may be longer than published if the floor is in an area with poor air flow, has air temperatures below 70°F, or the concrete was damp prior to application.

If desired, 213898 UltraWear Anti-Slip Additive can be used to improve slip resistance. Use one bag per gallon.

EQUIPMENT RECOMMENDATIONS

BRUSH: Use a good quality synthetic bristle brush.

ROLLER: Use a good quality synthetic nap roller cover.

AIR-ATOMIZED SPRAY:

Method	Fluid Tip	Fluid Delivery	Atomization Pressure
Pressure	0.055-0.070	12-16 oz./min	40-60 psi
Siphon	0.055-0.070	---	40-60 psi
HVLP (var.)	0.043-0.070	---	10 psi at tip

Air cap for highest pressure

AIRLESS SPRAY:

Fluid Pressure	Fluid Tip	Filter Mesh
2000-3000 psi	0.013-0.017	100

CLEAN-UP

Clean up with soap and water and dispose of all waste material in a proper manner and in accordance with local waste regulations. Consult with local environmental regulations for appropriate method of disposal and/or recycling of paint and empty container.



SIERRA™ S60 WATER-BASED EPOXY MAINTENANCE COATING

PERFORMANCE CHARACTERISTICS

SCRUB RESISTANCE

METHOD: ASTM D2486
RESULT: >2,000 cycles

WASHABILITY

METHOD: ASTM D4828
RESULT: 9

IMPACT RESISTANCE (direct)

METHOD: ASTM D2794
RESULT: 35 in. lbs.

GLOSS AT 60°

METHOD: ASTM D523
RESULT: 80-85 Gloss Finishes
20-35 Satin Finishes

ALKALI RESISTANCE

METHOD: ASTM D1308
RESULT: No effect

TABER ABRASION/ABRASION RESISTANCE

METHOD: ASTM D4060, CS-17 wheels, 1000 gram load,
1000 cycles
RESULT: Wear index 117, (117 mg loss)

FLAME SPREAD INDEX

METHOD: ASTM E84-20
RESULT: Class A

SMOKE SPREAD INDEX

METHOD: ASTM E84-20
RESULT: Class A

PERFORMANCE CHARACTERISTICS (cont.)

APPLICABILITY

METHOD: ASTM D7073
RESULT: Passed

PENCIL HARDNESS

METHOD: ASTM D3363
RESULT: 3H

QUV/EPOXY DISCOLORATION

METHOD: ASTM G5388 (96 hours)
RESULT: 1.5% gloss loss/change, very slight yellowing

ADHESION (concrete)

METHOD: ASTM D7234
RESULT: >200 psi, concrete failure

TENSILE STRENGTH

METHOD: ASTM D2370
RESULT: 2,755 lbs./sq. in.

COEFFICIENT OF FRICTION

METHOD: ASTM F1679-04e1
RESULT: Dry: 0.86

For chemical and corrosion resistance, see Rust-Oleum Industrial Brands Catalog (Form #275585).

EPOXY	TECHNICAL DATA	SP-25
	SIERRA™ S60 WATER-BASED EPOXY MAINTENANCE COATING	

PHYSICAL PROPERTIES

		S60 WATER-BASED EPOXY MAINTENANCE COATING
Resin Type		Water-based Epoxy
Pigment Type		Varies with color
Solvents		Water, Glycol Ethers
Weight**	Per Gallon	9.0-12.5 lbs.
	Per Liter	1.1-1.5 kg
Solids**	By Weight	59.5%
	By Volume	50.0%
Volatile Organic Compounds**		<50 g/l
Recommended Dry Film Thickness (DFT) Per Coat		2.0-3.0 mils (50-75μ) 3.5-5.0 mils (87.5-125μ) for color finishes† 2.0-3.0 mils (50-75μ) for clear finishes†
Wet Film to Achieve DFT (unthinned material)		4.0-6.0 mils (100-150μ) 7-10 mils (175-250μ) for color finishes† 4.0-6.0 mils (100-150μ) for clear finishes†
Practical Coverage at Recommended DFT (assumes 15% material loss) Use this value for material quantity estimate		230-340 sq. ft./gal. (5.7-8.4 m ² /l) 135-195 sq. ft./gal. (3.3-4.8 m ² /l) for color finishes† 225-340 sq. ft./gal. (5.5-8.4 m ² /l) for clear finishes†
Induction Period**		None
Pot Life @ 70-80°F		2 hours
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	Tack Free	15-45 minutes
	Dries Hard	1.5-2 hours
	Recoat	1-3 hours, clear finishes must be dry to the point where the coating is free of any remaining milkiness before recoating
	Foot Traffic	Light Foot Traffic: 3 hours; Normal Foot Traffic: 24 hours
	Full Traffic	72 hours, full chemical resistance will take 10-14 days
Dry Heat Resistance		250°F (121°C), color may shift above 150°F (66°C)
Shelf Life		3 years for Part 1, 2 years for Part 2
Storage		PROTECT FROM FREEZING. IF PRODUCT SHOULD FREEZE, ALLOW THE MATERIAL TO WARM UP AND REMAIN AT NORMAL ROOM TEMPERATURE FOR 48 HOURS PRIOR TO USE. MIX BY HAND STIRRING.
Safety Information		For additional information, see SDS

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

**Activated Material

† Floor application values

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