



S70 WATER-BASED EPOXY PRIMER

DESCRIPTION

The S70 Water-Based Epoxy Primer is formulated for brush and roller application. It is a zero VOC, zero HAP, very low odor, two component, water based epoxy primer.

This water based epoxy primer is designed for adhesion and corrosion resistance, and for general maintenance use in a moderate industrial environments for the corrosion protection of equipment and other steel surfaces. This coating is not suitable for continuous water immersion service. Since this coating is very low odor during application, it is ideal for use in warehouses, schools, healthcare facilities, food service areas, office buildings, hotels or in any area where odors are an issue.

This product is intended for application by brush or roller. Use S71 Water-Based Epoxy Primer for application by spray.

Rust-Oleum® Sierra Performance™ S70 Water-Based Epoxy Primer is suitable for use in USDA regulated facilities provided it is topcoated with a finish that complies with the USDA FSIS regulatory sanitation performance standards for food establishment facilities.

APPEARANCE: Flat white finish.

PRODUCT

1-Gallon	5-Gallon	Description
208110	208111*	White
208112	208559*	Activator

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

COMPANION PRODUCTS

RECOMMENDED TOPCOAT

S50 Epoxy Gloss Enamel
S60 Epoxy Maintenance Coating

COMPATIBLE TOPCOAT

S37 MetalMax®
S39 Beyond™

PRODUCT APPLICATION

SURFACE PREPARATION

ALL SURFACES: Remove all dirt, grease, oil, salt and chemical contaminants by washing the surface with Industrial Pure Strength, Cleaner/Degreaser®, commercial detergent or other suitable cleaner. Rinse thoroughly with fresh water and allow to fully dry.

STEEL: Scrape and wire brush or power tool clean to remove loose rust, scale, and deteriorated coatings. Abrasive blast to a minimum Commercial Grade (SSPC-SP-6, NACE 3) for more severe exposures. Two coats of primer must be used on abrasive blasted surfaces.

PREVIOUSLY COATED: Previously coated surfaces must be sound and in good condition. Smooth, hard, or glossy finishes should be scarified by sanding to create a surface profile. The S70 Epoxy Primer is compatible with most coatings, but a test patch is suggested. **WARNING!** If you scrape, sand or remove old paint from any surface, you may release lead paint dust. **LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE.** Wear a NIOSH-approved respirator to control lead exposure. Carefully clean up with a wet mop or HEPA vacuum. For additional information contact the U.S.EPA/Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

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.

EQUIPMENT RECOMMENDATIONS

BRUSH: Use a good quality synthetic bristle brush.
ROLLER: Use a good quality 3/8" 1/4-3/8 Nap lamb's wool or synthetic fiber roller.



TECHNICAL DATA

S70 WATER-BASED EPOXY PRIMER

PRODUCT APPLICATION (cont.)

MIXING

Premix the base component to re-disperse settled pigment before adding the activator. Add in the activator and thoroughly mix for 3-5 minutes.

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.

TINTING

The 208110 base component can accept up to 2 ounces of colorant. Use a high quality universal water-based colorant.

PERFORMANCE CHARACTERISTICS

PENCIL HARDNESS

METHOD: ASTM D3363

RESULT: H

CONICAL FLEXIBILITY

METHOD: ASTM D522

RESULT: 180°, 1/2"

IMPACT RESISTANCE (direct)

METHOD: ASTM D2794

RESULT: 50 in.-lbs.

FINISH

Flat

INTERCOAT ADHESION

METHOD: ASTM D3359

RESULT: Excellent

CORROSION RESISTANCE

METHOD: ASTM B117, Salt Spray, CRS B1000

RESULT: 4 mils <1500 hours

For chemical and corrosion resistance, see the Rust-Oleum Industrial Brands Catalog (Form #206275).



TECHNICAL DATA

S70 WATER-BASED EPOXY PRIMER

PHYSICAL PROPERTIES

Resin Type		Epoxy
Pigment Type		Varies with color
Solvents		Water
Weight**	Per Gallon	11.4 lbs.
	Per Liter	1.4 Kg
Solids**	By Weight	58%
	By Volume	43%
Viscosity		90-95 KUs
Volatile Organic Compounds**		0†
Recommended Dry Film Thickness (DFT) Per Coat		2-3 mils (50-75µ)
Wet Film to Achieve DFT		5-7 mils (125-175µ)
Theoretical Coverage at 1 mil DFT (25µ)		690 sq. ft./gal. (17.0 m²/l)
Practical Coverage at Recommended DFT (assumes 15% material loss)		200-300 sq. ft./gal. (4.9-7.4 m²/l)
Mixing Ratio		1:1 Part 1 to Part 2 by volume
Induction Period		None
Pot Life @ 70°-80°F		2 hours
Dry Heat Resistance		250°F (121°C), color may shift above 150°F (66°C)
Dry Times at 70-80°F (21-27°C) and 50% rel. hum.	Tack-free	30 minutes
	Recoat	1-2 hours
Shelf Life		3 years for Part 2, 2 years for Part 1
Safety Information	Formulation	Lead-free/Solvent-free
	Warning!	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.

**Activated material.

†Measured by EPA Test 24.

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

The technical data and suggestions for use contained herein are correct to the best of our knowledge, and offered in good faith. The statements of this literature do not constitute a warranty, express, or implied, as to the performance of these products. As conditions and use of our materials are beyond our control, we can guarantee these products only to conform to our standards of quality, and our liability, if any, will be limited to replacement of defective materials. All technical information is subject to change without notice.



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

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

Form: 210781
Rev.: 110811