RUST-OLEUM®

S6511 SYSTEM
PENETRATING PRIME & SEAL™ PRIMER

DESCRIPTION AND USES

S6511 Penetrating Prime & Seal™ Primer is a clear, unpigmented, two component, high solids epoxy primer. Use prior to application of the 6500 System floor Coatings to seal small voids and pinholes to reduce the risk of bubble formation in the topcoat which is caused by expanding air trapped in these voids, also known as outgassing. The S6511 Penetrating Prime & Seal Primer is designed to penetrate bare concrete to promote a strong bond between the finish and the concrete substrate.

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

PACKAGING

1-Gallon Activated Size:

Base (S6511): 0.6 gallons in a 1 gallon container
Activator (S6502): 0.4 gallons in a gallon container

PRODUCT APPLICATION

SURFACE PREPARATION

NEW, UNCOATED CONCRETE: New concrete should be allowed to cure for a minimum of 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 test. If moisture persists, concrete surface cannot be coated.

Remove oil, dirt, grease and other chemical contaminants by cleaning with Krud Kutter® Original Cleaner Degreaser, detergent, or other suitable cleaner. Rinse with water. Concrete curing agents and sealers may inhibit the action of the etching solution. Lightly sprinkle water onto a clean, dry area of the floor and observe if the water soaks into the concrete or beads on the surface. If beading occurs, then a sealer or curing agent is present and needs to be removed. This is best achieved by shot blast cleaning. No additional method of surface preparation is required if shot blasting is performed. If the concrete is free of curing agents or sealers, then etch the concrete with 108 Clean & Etch Solution. Rinse thoroughly and immediately and allow to thoroughly dry. After completion, the concrete should have a texture, which resembles fine grit sandpaper. Repeat the process if necessary. Consult with 108 Clean & Etch Solution Technical Data Sheet, Form GDH-1108, for complete application instructions.

PRODUCT APPLICATION (cont.)

MIXING

Note: Before starting, ensure the material, concrete surface and the ambient air temperatures are all between 65-90°F ((18-32°C). Power mix the material using a Birdcage or Jiffler mixer and electric drill. The mixing ratio is 1.5:1, base to activator by volume. Precise portions of base and activator are mixed together. Do not mix more than 1 or 2 gallons at a time to allow for sufficient working time.

APPLICATION

Apply to the prepared concrete surface using a rubber squeegee. Pour the material out onto the floor in a long stripe, letting the material flow out naturally. Do not scrape out the remaining material from the sidewalls or bottom of the container. Material clinging to the sides and bottom of the container may not be fully activated and will not properly cure if applied to the floor. The product should be pulled tight with the squeegee and then back rolled with a short ⅜" nap roller. Application of more than 8 mils may cause bubbling. The rate of application will vary depending on the surface roughness and porosity. One gallon will cover approximately 180-260 square feet.

THINNING

Not required.

CLEAN-UP

160 Thinner or xylene. Clean tools promptly after use.

EQUIPMENT RECOMMENDATIONS

SQUEEGEE: Use a high quality rubber squeegee.

ROLLER: Use a high quality short nap (¼-⅜") lint-free roller with a phenolic core.

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TECHNICAL DATA

S6511 SYSTEM PENETRATING PRIME & SEAL™ PRIMER

PHYSICAL PROPERTIES

Resin Type		Polyamine Converted Epoxy
Pigment Type		None
Solvents		Isopropyl Alcohol
Weight*	**Per Gallon**	8.9 lbs.
	Per Liter	1.07 kg
Solids*	**By Weight**	87%
	By Volume	89%
Volatile Organic Compounds*		<250 g/l (2.08 lbs./gal.)
Recommended Dry Film Thickness (DFT) Per Coat		5.5-8.0 mils (137.5-200µ)
Wet Film to Achieve DFT		6-9 mils (150-225µ)
Theoretical Coverage at 1 mil DFT (25µ)		1430 sq.ft./gal. (35.1 m^2/l)
Practical Coverage at Recommended DFT		180-260 sq.ft./gal. (4.4-6.4 m^2/l)
Mixing Ratio		1.5:1 base to activator (by volume)
Induction Period		None
Pot Life @ 70-80°F & 50% Relative Humidity		30 minutes**
Dry Times at 70-80°F (21-27°C) and 50% Relative Humidity	**Tack Free**	6-8 hours
	Recoat	8-24 hours (Do not exceed 48 hours)
Shelf Life		3 years
Safety Information		For additional information, see SDS

Calculated values are shown and may vary slightly from the actual manufactured material.
*Activated Material
** Higher temperatures and larger quantities of activated material will significantly reduce pot life. It is strongly recommended that the activated material is poured out onto the floor immediately after mixing and is not allowed to sit in the mixing container.

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