

Primers

Technical Data Bulletin



Surface-Seal I™ with **Micro-Lok™** Technology High Performance Masonry Primer

PRODUCT DESCRIPTION

SURFACE-SEAL I is a high performance deep penetrating sealer designed to work with various top coats to provide maximum adhesion and surface protection. *SURFACE-SEAL I* may be applied to painted or unpainted surfaces prior to top-coating those surfaces with *TEC-TOP™* Elastomeric, *HYDRO-LOK XP™*, *HYDRO-LOK PH+™* or *COLOR-LOK™* Stains.

SURFACE-SEAL I achieves industry leading adhesion and penetration with the aid of our exclusive *MICRO-LOK* Technology which binds the coating to the surface and promotes adhesion with top-coats. This means longer life for the coating and the substrate.

PRODUCT FEATURES

- Achieves a 5 Year Labor and Material Warranty when used with appropriate RAINGUARD top coats
- Flexible and breathable
- Binds top coat to substrate
- Prevents delaminating
- Apply to fresh concrete after only 48 hours
- Seals and binds chalky substrates
- Helps prevents efflorescence
- May be applied to previously painted and properly prepared surfaces.
- Can be applied to concrete or stucco as a curing agent to promote hardening.

Warranty Period: Five Years (in proper system)

CSI Reference: Division 3, 4, 7 & 9

Part Numbers:	<u>USA</u>	<u>International</u>
1 Gallon Concentrate	SS-0101	SS-0101-CA
5 Gallon Ready To Use	SS-0105	SS-0105-CA

RECOMMENDED USES:

- Masonry block
- Brick
- Concrete
- Stucco
- EFIS or cement plaster
- May be used as a curing compound for vertical applications
- An Excellent Primer for Paint Applications

COVERAGE RATES (THEORETICAL):

<u>Substrate</u>	<u>Sq Ft/ Gallon</u>
CMU Precision Block	60-70
Split Faced	65-80
Scored/Fluted	65-80
Lightweight	40-55
Clay Brick	125-150
Stucco	100-150
Dense Masonry Surfaces	125-150
Adobe Block	70-90
Clay Block	50-60
EFIS	80-120
Concrete Curing	250

Special Considerations:

- Use of fluted or scored block or raked joints will increase surface areas by 20%-30% or more and decrease coverage rates. Allow for this increased surface area when determining material requirements.
- Extremely porous surfaces may require multiple coats.

Manufactured by:

Rainguard International

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HOW TO USE & PRECAUTIONS:

All surfaces to be coated shall be clean of any dirt and grime, efflorescence, lime run, form oils and release agents, grease, mud, excess mortar and mold and mildew, etc. All cracks shall be pointed or caulked. All voids, bee-holes, masonry surface defects and openings such as conduits, pipes, drains, door frames, vents, air conditioner openings, electrical openings, control joints or any dissimilar materials shall be repaired using urethane or other approved patching. May be applied to fresh concrete after 48 hours.

To achieve desired solids level, SURFACE-SEAL I Concentrate should be diluted as follows:

- 9 parts water to 1 part concentrate

DO NOT DILUTE SURFACE-SEAL I IF IN READY-TO-USE 5 GALLON PAILS.

PRECAUTIONS & LIMITATIONS

Do not apply to surfaces if moisture content is greater than 15% as measured with an electronic moisture meter. Do not apply materials in climates where freezing temperatures have existed prior to application, allow adequate time for surfaces to thaw. Establish that air, surface and material temperatures are above 35°F (2°C) and at least 5°F above the dew point prior to painting. Do not apply at temperatures below 35°F or when temperatures are expected to drop below 35°F within 48 hours of application. Do not apply if rain, snow or lower temperatures are expected within 48 hours. Do not apply if relative humidity is greater than 80%.

Use material in a well ventilated area. Protect the work of other trades. Protect shrubbery and other plants with drop cloths. Protect automobiles and all other property from over-spray. Mask and protect all areas not to be coated.

Store materials in a well-protected area between 45° and 90°F. Avoid freezing temperatures, direct sunlight and moisture. Keep away from heat sources.

FOLLOW THESE SIMPLE STEPS

1. SURFACE-SEAL I should be applied using low-pressure airless spray equipment.
2. Avoid atomizing material by using a spray tip size of .035 to .051. Spray head should be held 8 to 12 inches from the surface so that the flood coat runs down the wall approximately 6-12 inches below the point of application.
3. Avoid application in windy weather.
4. Trigger gun off at the end of each pass to avoid using excessive materials. Stop all applications only at corners, joints, seams or edges.

TEST PANEL:

Always apply material to a mock wall or test panel, test wall or actual surface area to determine acceptable color, surface porosity, application rates and methods before starting general application.

TECHNICAL DATA

Material Type	Silane/Siloxane
Active Solids Content	Approximately 40%
Color of Material	Milky White
Odor	Slight Ammonia Odor
V.O.C.	<15 g/L V.O.C. Compliant
Flash Point	Non-Flammable
pH Value	Approximately 12.5
Viscosity	9.6 Seconds No. 4 Ford Cup
Weight	Approximately 8.7 lbs./gal.
Surface Dry/Recoat	Approx 1 Hour
Full Chemical Cure	5 to 7 days

TEST DATA

Wind Driven Rain	ASTM E-514-86	98.7% Leak Red
Water Pen Fed Spec	SS-W-110C	75% Min Req
		96.8% Leak Red Chloride Ion Intr
Salt Pounding NCHRP No. 244		Allowed 25% - Obtained 13.0%
Water Abs CMU ASTM C140-75		89% Effective
Water Vapor Trans ASTM D-1653		100% Vapor Perm
Water Repellency ASTM C67-80A		97% Effective
Weathering ASTM G-53		2500 Hours – No Change

LIMITED WARRANTY PROCEDURES/INFORMATION

The information contained herein is offered in good faith and is believed to be accurate. To be eligible for a Rainguard Warranty the following must occur:

1. A site visit must be conducted by an employee or agent of Rainguard and a Field Inspection Report completed.
2. A Warranty Application must be completed fully by the applicator.
3. Field Inspection Report, Warranty Application and a copy of the distributor's invoice must be submitted to and approved by Rainguard.

This material is only warranted when applied in accordance with the manufacturers guidelines and warranty procedures. Without adherence to these specific guidelines, no expressed or implied warranty of this product is given. Please contact Rainguard for additional information.



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