

Water Repellents And Curing Aids

Technical Data Bulletin



Micro-Seal™

Concentrate SILANE/SILOXANE with Micro-Lok™
100% PENETRATING WATER REPELLENT

PRODUCT DESCRIPTION

MICRO-SEAL CONCENTRATE is a solvent free, 100% active solid, silane/siloxane repellent. Requiring dilution with tap water, *MICRO-SEAL* self emulsifies to form a high performance and deep penetrating, alkali resistant water repellent emulsion. When applied, *MICRO-SEAL* forms a short-chain water repellent barrier deep within the masonry surface. This hydrophobic barrier repels water yet remains highly vapor permeable and allows moisture to escape. *MICRO-SEAL* performance is not affected by weathering, UV light or wind driven rain.

MICRO-LOK creates a micro-molecular chemical and mechanical bond between the water-repellent chemicals and the substrate. *MICRO-SEAL* penetrates deep into masonry surfaces to provide long lasting and virtually indestructible water repellent protection that is not affected by weather or sunlight. Helps prevent spalling and cracking caused by freeze thaw cycles. Helps prevent chloride ion intrusion and efflorescence.

PRODUCT FEATURES

1. Exclusive *MICRO-LOK* formulation
2. Mold and mildew inhibitor
3. Protection not effected by weathering or UV light
4. Single or multiple coat application
5. V.O.C. compliant
6. Contains no known carcinogens
7. Maintenance free
8. Breathable – does not trap moisture
9. Can be used in cold temperature applications
10. Meets Master Painters Institute (MPI) #34 & #117—Water Repellent
11. Will not yellow
12. Meets ASTM C309, Type I Class A & B for curing compounds

Warranty Period: Up to Twenty Years

CSI Reference: Division 3, 4, 7 & 9

Part Numbers: USA International
1 Gallon CR-0711 CR-0711-CA

RECOMMENDED USES:

- Masonry block
- Concrete
- Stucco
- EFIS or cement plaster
- May be used on composite construction with a variety of substrates.
- An excellent primer for paint applications
- Recommended for both horizontal and vertical surfaces
- Oil, gas and brake fluid repellent

COVERAGE RATES (THEORETICAL):

<u>Substrate</u>	<u>Sq Ft/ Gallon</u>
CMU Precision Block	60-70
Split Faced	50-70
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

1079 Culpepper Drive, Conyers GA 30094

1-866-989-5159

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PRECAUTIONS & LIMITATIONS

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.

To achieve desired warranty, MICRO-SEAL Concentrate should be diluted as follows:

- 10 Years: 9 parts water to 1 part concentrate
- 20 Years: 4 parts water to 1 part concentrate

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 areas not to be coated from overspray. Remove overspray from any windows, automobiles, metal etc. as soon as possible should it occur. To prevent permanent staining, clean spills or leaks in a timely manner.

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

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.

FOLLOW THESE SIMPLE STEPS

1. MICRO-SEAL should be applied using low-pressure airless spray equipment.



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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.
5. **Multiple coats may be applied.**

TECHNICAL DATA

Material Type	Silane/Siloxane
Active Solids Content	100.0%
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 Series IV - 95% Red. 244 Series II - 83% Red.
Water Abs CMU ASTM C140-75	98.6% Effective
Water Vapor Trans ASTM D-1653-71	100% Vapor Perm
Water Repellency ASTM C67-87	98.6% Effective
Weathering ASTM G-53	3500 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.

