



TECHNICAL DATA SHEET

MICRO-SEAL™

SILANE/SILOXANE with MICRO-LOK™
100% PENETRATING WATER REPELLENT

PRODUCT DESCRIPTION

MICRO-SEAL Ready To Use is a solvent-free, 100% active solid, silane/siloxane repellent. *MICRO-SEAL* self-emulsifies to form a high-performance and deep-penetrating, alkali-resistant water-repellent emulsion. When applied, *MICRO-SEAL* forms a long-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 porous 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

- Exclusive *MICRO-LOK* formulation
- Mold and mildew inhibitor
- Will provide some graffiti protection—two coats required
- Protection not affected by weathering or UV light
- Single or multiple coat application
- V.O.C. compliant
- Contains no known carcinogens
- Breathable – does not trap moisture
- Can be used in cold temperature applications
- Meets Master Painters Institute (MPI) #34 & #117
- Meets ASTM C309, Type I Class A & B for curing compounds
- Can be used on surfaces containing a block admixture such as Dry-Block®
- Will NOT yellow or turn cloudy
- UV protectant

Warranty Period: Available in 10 or 20 Year
CSI Reference: Division 3, 4, 7 & 9
RTU= Ready To Use **CONC= Concentrate**

Part Numbers:	USA	International
1 Gallon-RTU	CR-0356	CR-0356-CA
5 Gallon-RTU	CR-0357	CR-0357-CA
55 Gallon-RTU	CR-0358	CR-0358-CA
1 Gallon-CONC	CR-0701	CR-0701-CA
5 Gallon-CONC	CR-0705	CR-0705-CA
ECO-Pod™-CONC	CR-0359	CR-0359-CA
32 oz. Quart-CONC	CR-0360	CR-0360-CA

RECOMMENDED USES:

- Bare wood
- Concrete
- EFIS or cement plaster
- Masonry block
- Natural Stone
- Stucco
- Grout Additive
- Surface primer for paint
- Oil, gas, and brake fluid repellent

May be used on composite construction with a variety of substrates.

An excellent primer for paint applications

Use on both horizontal and vertical surfaces

COVERAGE RATES (THEORETICAL):

Substrate	Sq Ft/ Gallon	*Dilution Rate
CMU Precision Block	60-70	9:1 water
Split Face	50-70	9:1 water
Scored/Fluted	65-80	9:1 water
Lightweight	40-55	9:1 water
Clay Brick	125-150	9:1 water
Stucco	100-150	9:1 water
Dense Masonry Surfaces	125-150	9:1 water
Adobe Block/Natural Stone	70-90	9:1 water
Wood	150-200	9:1 water
EFIS	80-120	9:1 water
Concrete Curing	300	19:1 water
Horizontal Concrete	300	9:1 water

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.

*Based on Concentrate CR-0701, CR-0705, CR-0359, CR-0360
 Do not dilute CR-0356, CR-0357, CR-0358
 See page 2 for dilution rate for warranty period

PRECAUTIONS & LIMITATIONS

All surfaces to be coated should 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 should 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 should be repaired using urethane or other approved patching.

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 40°F (4.4°C) and at least 5°F above the dew point prior to painting. Do not apply at temperatures below 40°F or when temperatures are expected to drop below 40°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 90%.

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.

Dilution - Concentrate ONLY

If product is Ready To Use - DO NOT DILUTE

- 10 Year Warranty - 9 parts water, 9:1 Mix ratio
- 20 Year Warranty - 4 parts water, 4:1 Mix ratio
- 10 Year Warranty - 1 ECO-Pod™ per 1 gallon of water
- 20 Year Warranty - 2 ECO-Pod™ per 1 gallon of water
- 10 Year Warranty - 1 32 oz. Quart per 4.75 gallons of water
- 20 Year Warranty - 2 32 oz. Quarts per 4.75 gallons of water

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.

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, whitening or yellowing will not occur.**

TECHNICAL DATA

Material Type	Silane/Siloxane
Active Content	100%
Volume Solids	40 or 80% (Depends on Dilution)
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
Surface Burning ASTM E84	Flame Spread 0, Smoke developed 0

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 fully completed 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.
4. For graffiti warranty please refer to Rainguard VandlSystem products.

This material is only warranted when applied in accordance with the manufacturer's 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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