

Micro-Seal®

with Graffiti Control

TECHNICAL DATA SHEET



Modified Silane/ Siloxane with Micro-Lok™. Penetrating Graffiti and Water Repellent Coating.

Micro-Seal® CSI Reference

07 19 00 Dampening / Waterproofing
09 96 23 Finishes

*standard warranty period is 5 years

Description

Micro-Seal® with Graffiti Control is a water-based, modified silane/siloxane product that combines high-quality penetrating solids. It is a clear, deep-penetrating, and non-film-forming chemically-reactive masonry water repellent and graffiti coating.

Micro-Seal® with Graffiti Control penetrates deeply into porous masonry surfaces for long-lasting and virtually indestructible water-repellent protection that is unaffected by weather or sunlight.

Micro-Seal® with Graffiti Control provides superior grade, heavy-duty graffiti and water repellent performance on a wide variety of vertical and horizontal surfaces. It seals the pores of the surface, making graffiti easier to clean using VandlClean Super.

Recommended Uses:

- Bare wood
- Brick
- Concrete
- EFIS or cement plaster
- Masonry block
- Stucco
- Porous stone
- Unglazed tile

Features & Benefits

- Two-in-one product provides protection against moisture damage and graffiti
- Long lasting and durable formula
- V.O.C. compliant
- Contains no known carcinogens
- Breathable – does not trap moisture
- UV resistant formula
- Helps prevent freeze/thaw damage
- Warranty of up to 20 years for water repellency and 10 years for graffiti control

Coverage Rate by Substrate (theoretical)

The coverage depends on the surface. Test the product on a small area of the substrate to estimate coverage. Extremely porous surfaces may require multiple coats.

Substrate	Sq Ft/ Gallon
CMU Precision Block	70 - 80
Split Face	60 - 80
Scored / Fluted	75 - 90
Lightweight	50 - 65
Clay Brick	135 - 160
Stucco	110 - 160
Dense Masonry Surfaces	135 - 160
Wood	160 - 210
Clay Block	60 - 70
EFIS	90 - 130

The use of fluted, scored block, raked joints, sandblasted or etched surfaces will result in greater absorption and lower coverage rates, by up to 40%. Test these areas for the expected coverage rate before general application. Allow for this increased surface area when determining material requirements.

Surface Preparation

Prior to application, all surface shall be clean and dry with no oils, dirt, debris, or minerals such as efflorescence, lime and calcium. These stains, along with others, will prevent proper penetration of Micro-Seal® to sufficiently seal for the warranty period.

The use of Rainguard's Restore-N-Prep™ Concrete and Masonry Cleaner system is recommended as a pre-treatment to clean masonry surfaces. Once clean, allow the surface to fully dry before sealing or applying a top-coat (See the Restore-N-Prep™ TDS for details).

Restore-N-Prep™ CSI Reference

03 01 40 Concrete Finishes
03 10 30 Concrete Finishes
03 10 50 Concrete Finishes
04 01 20 Unit Masonry
04 01 40 Unit Masonry



Dilution

Standard dilution is 9 parts water:1 for the 1 gallon concentrate. Only add fresh clean water to dilute any concentrates.

DO NOT DILUTE if the product is Ready to Use. Refer to the product label for accurate dilution rates.

Application Instructions

1. Micro-Seal® with Graffiti Control should be applied using low pressure airless spray equipment.
2. Avoid atomizing the material. Use a spray tip size of .035 to .051. For a vertical surface spray, hold the head 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. For a horizontal surface, spray in a cross hatch motion letting product pool slightly.
3. Trigger gun off at the end of each pass to avoid using excessive material. Stop all applications only at corners, joints, seams, or edges.
4. Apply second coat wet-on-wet after first coat has penetrated for 5 minutes. Immediately roll or brush out runs, drips, and puddles to ensure an even appearance.

PLEASE NOTE:

Elevation Sealing - We recommend sealing the entire elevation of porous surfaces with Micro-Seal® before applying our VandlGuard® products. This ensures the wall has a consistent look during rains, and moisture will not get behind the VandlGuard® Anti-Graffiti Coating in the future.

Test Panel

Always apply Micro-Seal® with Graffiti Control onto a mock wall or test panel. Test the wall or an actual surface area to determine acceptable color, surface porosity, application rates and methods before starting general application.

Safe Handling

Use product only with adequate ventilation and/or an appropriate cartridge type respirator. Avoid contact with skin and wear protective gloves. Read the Safety Data Sheet before using.

Precautions

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.

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, beeholes, 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 25% 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 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%.

Clear water repellents are not designed to waterproof horizontal masonry surfaces such as ledges, sills, cornices and parapet walls, etc.

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



Approvals & Qualifications

USGBC - LEED Points

Up to 3 Points

Test Data

Wind Driven Rain	ASTM E-514-86., 98.7% Leak Red
Water Pen Fed Spec	SS-W-110C, 75% Min Req, 98.8 Leak Red Chloride Ion Intr
Salt Pounding NCHRP	No. 244 Series IV - 95% Red No. 244 Series II - 83% Red
Water Abs CMU ASTM C140-75	98.8% Effective
Water Vapor Trans ASTM D-1653-71	100% Vapor Perm
Water Repellency ASTM C67-87	98.8% Effective
Weathering ASTM G-53	3,500 Hours - No Change
Surface Burning ASTM E84	Flame Spread 0, Smoke Development 0
Maximum Scrubbing Cycles	55
ASTM D6578	Level 8
ASTM D7089	Level 2

Technical Data

Material Type	Modified Silane/Siloxane
Active Content	100%
Volume Solids	80%
Color of Material	Milky White
Odor	Slight Odor
V.O.C.	< 30 g/L V.O.C. Compliant
Flash Point	Non-Flammable
pH Value	6
Viscosity	9.6 Seconds No. 4 Ford Cup
Weight	Approximately 8.9 lbs./Gal.
Surface Dry	Approx 1 Hour
Full Chemical Cure	5 to 7 days



Warranties

Rainguard Brands, LLC guarantees that this product is free from manufacturing defects and complies with our published specifications. In the event that the buyer proves that the goods received do not conform to these specifications or were defectively manufactured, the buyer's remedies shall be limited to either the return of the goods and repayment of the purchase price or replacement of the defective material at the option of the seller. Rainguard Brands, LLC makes no other warranty, expressed or implied, and all warranties of merchantability and fitness for a particular purpose are hereby disclaimed. Manufacturer or seller shall not be liable for prospective profits or consequential damages resulting from the use of this product. Manufacturer shall not be liable for material used outside of its shelf life. For product dating, please refer to the batch number on the product or contact Rainguard Brands, LLC.

Surface conditions and application variables are out of the control of Rainguard Brands, LLC. As such, the applicator agrees to: Follow recommended application instructions, acknowledge limitations outlined in this technical data sheet, contact the manufacturer in the event there any uncertainties, perform a test panel to confirm fit and finish before any general application. The data on this sheet represent typical values. Since application variables are a major factor in product performance, this information should serve only as a general guide. Rainguard Brands assumes no obligation or liability for use of this information. Contact manufacturer at 888-765-7070 before bidding to confirm warranty provisions and procedures.

SELLER'S LIABILITY UNDER THE SALE OF THIS PRODUCT IS LIMITED TO REPLACING DEFECTIVE PRODUCT. HOWEVER, IF SELLERS FAILS IN ITS ATTEMPT TO REPLACE THE DEFECTIVE PRODUCT, BUYER WILL BE ENTITLED TO A REFUND OF MONIES PAID TO SELLER UNDER THIS PRODUCT WARRANTY. SELLER IS NOT LIABLE FOR BUYER'S LOSS OF PROFITS, BUSINESS GOODWILL, OR OTHER CONSEQUENTIAL DAMAGES, DESPITE ANY FAILURE TO REPLACE THE PRODUCT. BUYER HAS ACCEPTED THIS RESTRICTION ON ITS RIGHT TO RECOVER CONSEQUENTIAL DAMAGES AS PART OF ITS BARGAIN WITH SELLER. BUYER REALIZES AND ACKNOWLEDGES THAT THE PRICE OF THE PRODUCT WOULD BE HIGHER IF SELLER WERE REQUIRED TO BE RESPONSIBLE FOR BUYER'S CONSEQUENTIAL DAMAGES."

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