

MicroSeal™ Water Repellent



performance
solutions

COAT · PROTECT · RESTORE

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Technical Data

PRODUCT DESCRIPTION

MICRO-SEAL Ready to Use is a solvent free, 100% active solid, silane/siloxane repellent. Requiring no dilution and ready to use, *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. This material is **Ready To Use - Do Not Dilute**.

PRODUCT FEATURES

1. Exclusive *MICRO-LOK* formulation
2. Mould and mildew inhibitor
3. Protection not affected 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 1 Class A & B for curing compounds

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)

Substrate		Square Meters (Per Litre)
CMU	Precision Block	1.5-1.7m ² /Litre
	Split Faced	1.2-1.7m ² /Litre
	Scored/Fluted	1.6-2.0m ² /Litre
	Lightweight	1.0-1.4m ² /Litre
Clay Brick		3.1-3.7m ² /Litre
Stucco		2.5-3.7m ² /Litre
Dense Masonry Surfaces		3.1-3.7m ² /Litre
Adobe Block		1.7-2.2m ² /Litre
Clay Block		1.2-1.5m ² /Litre
EFIS		2.0-2.9m ² /Litre
Concrete Curing		6.1m ² /Litre

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.

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 mould 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.

Do Not Dilute. MicroSeal is supplied ready to use.

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 1.7°C and at least 3°C above the dew point prior to painting. Do not apply at temperatures below 1.7°C or when temperatures are expected to drop below 1.7°C 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 over-spray. 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 17° C and 32° C. 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.
2. Avoid atomizing material a spray tip size of .035 to .051. Spray head should be held 20 to 30 centimetres from the surface so that the flood coat runs down the wall approximately 15 to 30 centimetres 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	Approximately 65.0%
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 No. 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

MATERIAL WARRANTY PROCEDURES/INFORMATION

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

1. A site visit must be conducted by an employee or agent of Performance Solutions 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 Performance Solutions.

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.