

Efflorescence Blocker®

100% Acrylic Emulsion

TECHNICAL DATA SHEET

High-Performance Mineral And Alkali Sealer And Blocker.



Efflorescence Blocker® CSI Reference

03 35 43 Concrete Finishing
04 40 00 Unit Masonry
09 61/96 Finishes
09 24/25 Finishes

*standard warranty period is 5 years

Description

Efflorescence Blocker® is a versatile product. It is designed to block efflorescence and alkali from migrating up to the surface of a porous substrate. It is ideal for applications where efflorescence is not preventable and requires constant maintenance. Typically used on floors where waterproofing membranes fail, are not installed, or for other applications where moisture penetration occurs. The finish results in a natural appearance with some substrates slightly darkening.

Applications include:

- Waterproof Membrane Failures
- Water Repellent Sealers
- Concrete Floors
- Retaining Walls
- Garden Stones and Pavers
- Walkways
- Sound Walls
- High Alkali or Mineral Substrates
- Horizontal / Vertical Concrete
- Concrete Curing Aid

Features & Benefits

- Blocks efflorescence and alkali from migrating up to the surface
- Ideal for planters and groundwater penetration
- Resists hot-tire pickup
- Excellent exterior durability, no change after 3,500 hours of weathering
- Direct and reverse impact resistant
- Works as a universal primer
- Water and stain resistant
- Wet and dry adhesion
- Surface dry time, approx. 1 hour
- Full chemical cure time, 5 to 7 days

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	200 - 225
Split Face	180 - 200
Scored / Fluted	150 - 180
Lightweight	165 - 180
Clay Brick	250 - 300
Stucco	225 - 275
Dense Masonry Surfaces	275 - 300
Clay Block	175 - 200
EIFS	150 - 180
Concrete	250 - 300
Concrete Curing Aid*	300 - 400

*requires a second coat at a rate of 400-600 sq ft / gallon

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 Efflorescence Blocker® 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



Vertical Surfaces

For vertical applications, do not allow Efflorescence Blocker® to drip.

Horizontal Surfaces

For horizontal applications, do not allow Efflorescence Blocker® to puddle up. Backroll any heavily pooling areas.

Application Instructions

1. Prepare the surface by removing any current efflorescence using RainGuard Restore-N-Prep™. The surface must be prepared, clean, and dry before applying the product.
2. Allow the substrate to dry for 1 to 2 hours after cleaning (depending on the weather).
3. Apply a thin coat, using just enough material to wet the substrate. DO NOT apply in a flood coat. Applying too much product may cause the coating to appear hazy. Back roll any drips or pooling. DO NOT atomize.

Clean Up & Disposal

Clean up promptly with mild soap and water before product cures. Dispose of product waste according to local, state and federal regulations.

Test Panel

Always apply Efflorescence Blocker® 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 product 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.

The recommended storage temperature is approximately 22 °C (72 °F). Do not damage containers. Store in a dry place. Do not store for extended periods in direct sunlight. Protect containers from resin and moisture contamination.



Test Data

ASTM C666	2200 Cycles - No effect
ASTM C672 100 Cycles	No Mass Loss, No Scaling
ASTM D2243	Do Not Freeze
ASTM G154 2,500 Hours	No Loss in Repellency
ASTM C672/C672M	No Scaling, 100 Cycles Treated Concrete
Wind Driven Rain	ASTM E-514-86., 98.9% Leak Red
Water Pen Fed Spec	SS-W-110C, 75% Min Req, 97.2% Leak Red Chloride Ion Intr
Salt Pounding NCHRP	No. 244 Series IV - 95% Red No. 244 Series II - 87% Red
Chloride Ion Absorption	No. 244 Series II - 87%
Water Abs CMU ASTM C140-75	98.2% Effective
Water Vapor Trans ASTM D-1653-71	100% Vapor Perm
Water Repellency ASTM C67-87	98.2% Effective
Weathering ASTM G-53	3,500 Hours - No Change
Surface Burning ASTM E84	Flame Spread 0, Smoke Development 0
ASTM C 309	Pass
ASTM C1315	Type I, Class B

Technical Data

Material Type	Acrylic Copolymer Emulsion
Active Content	100%
Volume Solids	44%
Color of Material	Opal White
Odor	Slight Odor
V.O.C.	0 g/L V.O.C.
Flash Point	Non-Flammable
pH Value	8.0-9.0
Viscosity	9.6 Seconds No. 4 Ford Cup
Weight	Approximately 8.6 lbs./Gal.
Surface Dry/Recoat	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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