

VandlGuard®

Non-Sacrificial Anti-Graffiti Coating

TECHNICAL DATA SHEET

Tough and Durable Graffiti Resistant Coating.

VandlGuard® CSI Reference

09 96 23 Finishes

*One Year Warranty - apply one coat of VandlGuard®, Five Year Warranty - apply two coats of VandlGuard®, Ten Year Warranty - apply three coats of VandlGuard®

Description

VandlGuard® Non-Sacrificial Anti-Graffiti Coating is a single-part or two-part system* (when a surface is unpainted or unsealed) that provides a tough, durable graffiti resistant finish. This is a cross linking co-polymer material coating that dries clear (non-yellowing) with a low luster sheen finish. Protects a variety of interior and exterior vertical surfaces from permanent graffiti staining and damage. It protects your surface from graffiti defacement caused by commercially available spray paints.

*Bare Porous Surfaces:

First apply one coat of Micro-Seal® Water Repellent by Rainguard. When surface is dry to the touch begin the application of VandlGuard®.

Recommended Uses:

- Aggregate panels
- Concrete, brick, or stucco
- EIFS and cement plaster
- Metal
- Over water-based coatings
- Previously or newly-painted surfaces.
- Stone
- Wood

Features & Benefits

- Supplied Ready-to-Use - no mixing needed
- V.O.C. compliant - less than 20 g/L
- Treated surfaces will sustain unlimited graffiti removals for a period up to 10 years
- Will retard the growth of mildew, mold, fungus, bacteria
- Surfaces require no particular maintenance
- No expensive sand blasting needed
- Meets Master Painters Institute (MPI) #105 - Graffiti-Protection, Top Coat
- UV Protectant

Coverage Rate by Substrate (theoretical)

Test the product on a small area of the substrate to estimate coverage and determine if a second coat is needed.



Coverage Rate continued...

The coverage depends on the surface. Test the product on a small area of the substrate to estimate coverage and determine if a second coat is needed.

| Substrate | Sq Ft/ Gallon |
|----------------------------------|---------------|
| Precision/ Split Face Block | 200 |
| Ground Face Block | 200 |
| Scored/ Fluted Block | 180 |
| Sand Blasted Block | 180 |
| Slump/ Adobe Block | 200 |
| Heavy Textured Stucco | 200 |
| Brick | 250 |
| Unpainted Wood | 200 |
| Porous Tile | 200 |
| Fine/ Medium Textured Stucco | 250 |
| Cast/ Pre-Cast/ Tilt-Up Concrete | 250 |
| Sand Blasted Concrete | 225 |
| Exposed Aggregate | 225 |
| EIFS | 225 |
| Metal | 300 |
| Painted Surfaces | 300 |

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 surfaces 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 VandlGuard® Non-Sacrificial 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

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|----------------------------|
| 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 |



Application Instructions

All surfaces to be coated should be structurally sound, clean, and dry. Apply using a roller, or low-pressure airless spray equipment at recommended spread rates. If using a brush, use enough material to create a sufficient film build. When spraying, apply in a fine mist, cross hatched pattern to build up the wet coating. As soon as the entire surface has been coated, immediately repeat the process with a second pass. Depending on the porosity of the surface, a light second coat may be necessary. Clean equipment with soap and water when finished.

Application Data

| | |
|--------------------|---|
| TEMPERATURE: | 40°F - 90°F (5°C-30°C) |
| RELATIVE HUMIDITY: | < 80% |
| AIRLESS SPRAY: | |
| TIP | .017-.021 |
| REDUCTION | N/A |
| BRUSH: | N/A |
| ROLLER COVER: | 1/4" NAP; SYNTHETIC (MAY REQUIRE MORE COATS) |

Painted Surfaces

Allow newly painted and stucco surfaces to fully chemically cure before application of VandlGuard®. Recent formulations of pigmented paints, coatings, and integrally colored stucco colorant additives contain biocides. These biocides must be released before application of VandlGuard®. Please consult the manufacturer of the paint/stucco coating to determine the chemical curing period. Rainguard is not responsible for yellowing or color differences as a result of application of the VandlGuard over uncured paint or integrally colored stucco surfaces.

Graffiti Removal

1. Graffiti resistance is fully developed after cure time of 5-7 days depending on weather conditions.
2. When using power washer, keep pressure less than 500 psi. For difficult removal use warm to hot water while power washing. No need to use harsh chemical cleaners.
3. When using chemical cleaners use Rainguard VandlClean™ Super a non-hazardous biodegradable cleaner. Follow manufacturer's recommendations and instructions for use. In addition, warm water power-washing has also been known to assist in the removal of tagging.

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. 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. If an acid etch or an acid stain has been applied to the surface, it must be thoroughly flushed to remove all residue and then allow to dry.

Do not apply on damp or moist surface as it will whiten and may cause delamination. Do not apply to surfaces if moisture content is greater than 15% as measured with an electronic moisture meter. Do not apply product 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 in temperatures below 40°F or above 100°F. Do not apply if rain, snow, or lower temperatures are expected within 48 hours. Do not apply if relative humidity is greater than 80%.

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

Shelf Life of this material is 6 months from the date of manufacture (see batch number for manufactured date).

Clean Up

Uncured material can be removed with a water. Cured material can only be removed mechanically. All empty containers must be disposed of according to local, state, and federal regulations.



Approvals & Qualifications

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| OEHS Chemical Evaluation Program | Approved |
| LAUSD Anti-Graffiti Architectural Specificaltion | Approved |
| Los Angeles Research Report | #RR 25060 |
| USGBC - LEED Points | Up to 3 Points |

Test Data

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| ASTM D-3960 VOC Levels | <20 g/L |
| ASTM E-514-86 Wind Driven Rain | 98.7% Leak Red |
| Water Vapor Trans ASTM D-1653-71 | 100% Vapor Perm |
| Water Pen Fed Spec SS-W-110C | 75% Min Req 96.8% Leak Red Chloride Ion |
| Salt Pounding NCHRP No. 244 Series IV | 95% Red |
| No. 244 Series IV | 83% Red |
| Scaling Resistance ASTM C672/C672 | 100 Cycles - No Scaling |
| Exposure to deicing chemicals 100 Freeze Thaw Cycles | Visual Rating - 0 |
| Water Abs CMU ASTM C140-75 | 98.6% Effective |
| ASTM G-53/G 154 Accelerated Weathering 8000 Hours | No blistering, chalking, gloss or color changes |
| ASTM C-1262 Freeze, Thaw Resistance 100 cycles | Cracking none; adhesion loss none |
| Surface Burning ASTM E84 | Flame Spread 0, Smoke developed 0 |
| ASTM D-638 - Elongation | 150% |
| ASTM D-412 Tensile Strength | 6150 PSI |
| ASTM D523 (Gloss) | 90° |
| ASTM D523 (Matte) | 3°-6° |
| Maximum scrub Cycles | 135 |
| ASTM B117 Salt Fog | 3000 Hours/No Effect |
| ASTM D530 Hardness Pencil 2 weekst | 2H |
| ASTM D412 Elongation | 150% |
| ASTM D412 Tensile Strength | 6050 |
| ASTM D522 Mandrel Bend Test | No coating loss at 180° rotation |
| ASTM D968 Sand Abrasion Resistance | 5-65 Liters |
| ASTM E96 Water Vapor Transmission | 100% Vapor Perm |

Test Panel

Always apply VandlGuard® Non-Sacrificial onto a mock wall or test panel. Prior to coating previously sealed surfaces, test a small area for adhesion. Test wall or 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.



Technical Data

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|-------------------|--------------------------|
| Material Type | Cross Linked Co- Polymer |
| Permeability | 100% |
| Volume | Approx. 40% |
| Weight | Approx. 58% Solids |
| Odor | Slight Latex Odor |
| Temp Range | Application 40°-100° F |
| Color of Material | Clear |
| V.O.C. | <20 gm/L |
| Flash Point | Non-Flammable |
| Surface Dry Time | 1-2 Hours |
| Cure Time | 3-4 Days |
| Finish | Dries Clear |

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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