

# VandlGuard® Silicone Elastomeric

Clear Silicone Elastomeric

## TECHNICAL DATA SHEET

Tough and Durable Graffiti Resistant Coating.



## VandlGuard® Silicone Elastomeric CSI Reference

09 96 23 Finishes

### Description

VandlGuard® Silicone Elastomeric is a clear, low VOC, water-based silicone elastomeric with exceptional crack bridging and flexibility performance. It has great hardness without losing elastomeric properties, making it ideal for use on high temperature exterior environments. Ideal for use on above-grade substrates and can be used on horizontal walking surfaces. It's available as a clear, low luster finish to preserve the intended design of the substrates, while protecting from moisture and graffiti. Silicone Elastomeric is both a waterproofing product along with anti-graffiti performance.

#### \*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® Silicone Elastomeric.

#### 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
- Non-sacrificial performance
- Will inhibit the growth of mildew, mold, fungus, bacteria
- Surfaces require no particular maintenance
- No expensive sand blasting needed
- UV Protectant
- Horizontal or vertical applications
- Exceptional adhesion to most substrates
- Paintable with 100% acrylic paint

### 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. We recommend two coats for proper crack bridging and waterproofing performance.

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### Coverage Rate continued...

The coverage depends on the surface. Test a small amount of the material on the surface to estimate coverage rates more accurately. We recommend two coats are applied.

Substrate	Sq Ft/ Gallon
Precision/ Split Face Block	150
Ground Face Block	150
Scored/ Fluted Block	130
Sand Blasted Block	130
Slump/ Adobe Block	150
Heavy Textured Stucco	150
Brick	200
Unpainted Wood	150
Porous Tile	150
Fine/ Medium Textured Stucco	200
Cast/ Pre-Cast/ Tilt-Up Concrete	200
Sand Blasted Concrete	175
Exposed Aggregate	175
EIFS	175
Metal	250
Painted Surfaces	250

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® Silicone Elastomeric 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



## 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® Silicone Elastomeric. Recent formulations of pigmented paints, coatings, and integrally colored stucco colorant additives contain biocides. These biocides must be released before application of VandlGuard® Silicone Elastomeric. 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 Silicone Elastomeric 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.



## Test Data

ASTM E96	14 Perms
Scaling Resistance ASTM C672/C672	100 Cycles - No Scaling
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Exposure to deicing chemicals 100 Freeze Thaw Cycles	Visual Rating - 0
ASTM D6904 Wind-Driven Rain Resistance	Pass
ASTM G-53/G 154 Accelerated Weathering 3000 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
Color i7 at 8 mils DFT	95%
ASTM B117 Salt Fog	3000 Hours/No Effect
ASTM D530 Hardness Pencil 2 weekst	2H
ASTM D412 Elongation	420%
ASTM D412 Tensile Strength	126 PSI
ASTM D522 Mandrel Bend Test	No coating loss at 180° rotation
ASTM D968 Sand Abrasion Resistance	5-65 Liters

## Technical Data

Material Type	Hybrid Silicone Emulsion
Permeability	Perm Rating 14 (at 8 mils DFT)
Volume	64%
Weight	60%
Odor	Slight
Temp Range	Application 40°-100° F
Color of Material	Milky White
V.O.C.	<20 gm/L
Flash Point	Non-Flammable
Surface Dry Time	1-2 Hours
Finish	Clear

## Test Panel

Always apply VandlGuard® Silicone Elastomeric 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.



## 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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