

# VandlGuard®

## Single-Part Urethane Clear Coat™

### TECHNICAL DATA SHEET

Tintable, Graffiti resistance, UV resistance and Stain resistance



VandlGuard® Single-Part Urethane™

### Product Description

VandlGuard® Single-Part Urethane is a clear, Single component, water based, V.O.C. compliant Anti-Graffiti coating. It dries with a clear finish, with the option of low gloss, high gloss, and matte finishes. Provides a highly durable finish, which resists graffiti and staining while also providing physical protection from the elements for the surface below.

Description	U/M	Code
VandlGuard® Single-Part Urethane High Gloss	1 Gallon	VG-7020
VandlGuard® Single-Part Urethane High Gloss	5 Gallon	VG-7021
VandlGuard® Single-Part Urethane Matte	1 Gallon	VG-7022
VandlGuard® Single-Part Urethane Matte	5 Gallon	VG-7023
VandlGuard® Single-Part Urethane Low Gloss	1 Gallon	VG-7024
VandlGuard® Single-Part Urethane Low Gloss	5 Gallon	VG-7025

### CSI CODES

0090000 Finishes  
 0099723 Concrete & Masonry  
 0099623 Graffiti Resistant Coatings

### Note to Spec Writer/Architect:

Please consider the cleanability method desired before specifying any anti-graffiti product.

\*Highlighted Item indicates current product selected.

\*M & L - Material & Labor Warranty

### ASTM D7089-06 Graffiti Removal Method

Part Number	Product	Warranty	Trisodium Phosphate	High Pressure Wash	Graffiti Remover
<b>VG-7020 - VG-7025</b>	<b>Urethane</b>	<b>5/10 Year M &amp; L</b>	✓	✓	✓
VG-7006	Acrylic System	1/5/10 M & L			✓
VG-7000	Acrylic	1/5/10 Material			✓
VG-7100	VandlTop Sacrificial	N/A		✓	✓

### ASTM D6578/D6578M-13 Anti-Graffiti Cleanability Level

Part Number	Product	Level 9. Detergent	Level 8. IPA	Level 7. Minera Spirits	Level 6. Xylene	Level 5. MEK
<b>VG-7020 - VG-7025</b>	<b>Urethane</b>	✓	✓	✓	✓	✓
VG-7006	Acrylic System		✓	✓		
VG-7000	Acrylic		✓	✓		
VG-7100	VandlTop Sacrificial		✓	✓	✓	✓



## Uses:

- **Bare Surfaces:** First apply 1 coat of Micro-Seal® Water Repellent by Rainguard® (required for warranted applications)
- **Existing Paint:** Apply two coats of VandlGuard® Single-Part Urethane Clear Coat over high quality exterior paint systems for graffiti resistance.

## Product Features

- Highly Graffiti Resistant
- UV Resistant
- SCAQMD VOC Compliant
- High Gloss
- Excellent Adhesion
- Great Chemical Resistance
- Exceptional Durability Against Abrasion
- Single-Part - No Mixing Needed

## Coverage

The coverage will vary depending on the surface. Product will cover up to 400 square feet per gallon on a smooth surface and between 275-300 square feet per gallon on a rough/porous surface. Test product over small area of the substrate to determine coverage and whether or not a 2nd coat is needed.

## 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.

## Application

All surfaces to be coated should be clean of any dirt and grim, efflorescence, lime run, form oils, release agents, grease, mud, excess mortar, mold and mildew, etc. All cracks should be pointed or caulked. All voids, bee holes, masonry surface defects and openings, such as conduits, pipes, drains, door frames, vents, air conditioner opening, electrical opening, 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.

Apply using airless spray equipment, rolling, or brushing. Apply VandlGuard® Single-Part as the recommended coverage rates. If 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.

After 4 hours, you can apply a second coat with the same application method above.

## 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.

## Warranty

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

1. A site visit must be conducted by an employee or agent of Rainguard and a Field Inspection Report completed.
2. A Warranty Application must be fully completed by the applicator.
3. Field Inspection Report, Warranty Application, and a copy of the distributor's invoice must be submitted to and approved by Rainguard.

VandlGuard Single-Part Urethane is eligible for a Material Warranty:

### Five Year Warranty

Apply one coat of VandlGuard® Urethane at appropriate coverage rates.

### Ten year Warranty

Apply two coats of VandlGuard® Urethane at appropriate coverage rates.

If you have further questions about coverage rates please call your RainguardPro Representative, or call (888) 765-7070.

Apply for a warranty by visiting:

[RainguardPro.com/warranty-pre-registration](http://RainguardPro.com/warranty-pre-registration) or calling (888) 765-7070 to request a paper copy.

This material is only warranted when applied in accordance with the manufacturer's guidelines and warranty procedures. Without adherence to these specific guidelines, no expressed or implied warranty of this product is given. Please contact RainguardPro for additional information.

## Graffiti Removal

Attend to any graffiti as soon as possible. The longer graffiti sits unattended, the harder removal becomes. Within the first couple of days a power wash will remove the graffiti. After that, VandlClean® Super may be required to completely remove graffiti. In the event VandlClean® Super is needed, spray graffiti with VandlClean® Super, allow to sit for several seconds and follow up with a power wash to remove. Repeat as necessary. Depending on graffiti intensity, more than one pass may be necessary.



## Limitations

- Do not apply in temperatures below 40°F or above 100°F.
- Do not apply unless temperature is 5° above the dew point or if rain is expected within 24 hours.
- Do not apply on damp or moist surface as it will whiten and may cause delamination.
- Do not allow any Rainguard® products to freeze.
- Always apply on a test area before starting actual job.
- Prior to coating previously sealed surfaces, do a small area to test for adhesion.
- Shelf Life of this material is 6 months from the date of manufacture. (See batch number for manufactured date)

## Approvals & Qualifications

Los Angeles Research Report	#RR 25060
USGBC - LEED Points	Up to 3 Points

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## Technical Data

V.O.C.	<50 g/L V.O.C. Compliant
Material Type	Polyurethane
Active Content	52%
Color of Material	Clear to Slightly Cloudy
Odor	Slight Ammonia Odor
Flash Point	Non-Flammable
pH Value	Approximately 7.5
Viscosity	9.6 Seconds No. 4 Ford Cup
Weight	Approximately 8.5 lbs./Gal.
Surface Dry/Recoat	Approx 1 Hour
Full Chemical Cure	72 Hours



## Test Data

ASTM D-3960 VOC Levels	<50 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	Visual Rating - 0
100 Freeze Thaw Cycles	
Water Abs CMU ASTM C140-75	98.6% Effective
ASTM G-53/G 154	No blistering, chalking,
Accelerated Weathering 8000 Hours	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

## Chemical Resistance

IPA	No Effect after 5 Days
MEK	No Effect after 5 Days
Toluene	No Effect after 5 Days
50% Sodium Hydroxide	No Effect after 5 Days
75% Phosphoric Acid	No Effect after 5 Days
50% Sulfuric Acid	No Effect after 5 Days
Carboxylic Acid	No Effect after 5 Days
Aniline	Stain Only
37% Hydrochloric Acid	4 Hours Blister
NIT	72 Hours Blister
100% Acetic Acid	Failure