

# 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 Clear Coat is a clear, single component, water based, VOC compliant anti-graffiti. It is a very hard urethane that offers better gloss, Graffiti resistance, UV resistance and stain resistance than most other sealers. The water base allows the material to penetrate and adhere to concrete, porous brick & unglazed tile and most types of decorative acrylic cement coatings. VandlGuard Single-Part Urethane Clear Coat creates a glossy “wet look”. For optimal results, add Urethane Quick Cure Performance Additive. It is designed to increase pot life, chemical resistance, impact resistance, chip resistance, UV protection and reduce cure times in Rainguard urethane products. Urethane Quick Cure Performance Additive mixes easily.

Item	Product	U/M	UPC
VG-7020	VandlGuard Single Part Urethane	1 Gallon	6 6004100095 6
SP-1300	Urethane Quick Cure Performance Additive	2 Ounce	6 6004100229 8
VG-7021	VandlGuard Single Part Urethane	5 Gallons	6 6004100096 3
SP-1305	Urethane Quick Cure Performance Additive	10 Ounce	6 6004100231 1

### 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-7021</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-7021</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)
- **To be Painted:** Apply one coat of VandlGuard Single-Part Tintable Base Coat, followed by one coat of VandlGuard Single-Part Urethane Clear Coat for graffiti resistance.
- **Existing Paint:** Apply two coats of VandlGuard Single-Part Urethane Clear Coat over high quality exterior paint systems for graffiti resistance.

## Product Features

- UV Resistant
- SCAQMD VOC Compliant
- High Gloss
- Excellent Adhesion
- Great Chemical Resistance
- Graffiti Resistance

## 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.

## 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 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.

## Outstanding Benefits

- Penetrates deep – Perfect for use on brick porches, chimneys, walkways
- Prevents growth of mold and mildew
- Stain resistant to oil, gas and anti-freeze
- Great winterizing agent – Protects bricks from icing and salt infiltration

## Warranty

Rainguard International 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 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.

## Material and Labor Warranty Application Requirements

**Five Year Warranty-** Apply one coat of VandlGuard® Urethane

**Ten year Warranty-** Apply two coats of VandlGuard® Urethane



## Mixing

Add 2 ounces of Urethane Quick Cure Performance Additive per Gallon to thin material for better absorption, increased coverage, and to minimize bubbling. Increase pot life, chemical resistance, impact resistance, chip resistance, UV protection and reduce cure times. Mix well 5-10 minutes.

## Application

VandlGuard Single-Part Urethane Clear Coat may be sprayed, rolled or brushed. Spread a strip of the batch onto the surface along the edges where it will be cut in using a brush. Pour the remaining material near the cut in area and spread evenly using a 1/4" - 3/8" non-shed, water resistant roller cover. Apply quickly and do not over roll, as product will begin to "tack-up" as the curing process occurs. Thinning with acetone will help facilitate installation in most applications.

For spraying purposes, use a heavy-duty acetone pump sprayer (i.e. Chapin Xtreme). You may also use a pesticide sprayer (i.e. Hudson, Ortho), but be careful of drips. Use a low volume fan tip (generally colored yellow) for easiest application. Spray as lightly as possible to avoid puddling. There is no need to back roll product unless spraying over a previously coated surface. As a sealer over concrete: Apply as above, thinning with up to 25% acetone.

## Recoat Window

Apply second coat after first coat is completely dry. Do not wait longer than 24 hours before applying second coat. If existing coating has been cured for longer than 24 hours, sand the surface with 100-150 grit sand paper, remove debris and wipe with acetone just before new application.

## Graffiti Removal

Attend to any graffiti as soon as possible. The longer graffiti sits un-attended, 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.

## Inspection

Concrete must be clean, dry, and free of grease, paint, oil, dust, curing agents, or any foreign material that will prevent proper adhesion. The concrete should be at least 2500 psi and feel like 30-grit sandpaper. The concrete should be porous and be able to absorb water. A minimum of 28 days cured is required on all concrete. Relative humidity in the concrete floor slab should be below 80% (per ASTM F- 2170). All moisture should be kept away a min. of 72hrs before application and a min. of 72 hours after installation. This includes sprinklers, rain, fog, dew, etc. Before starting flooring work, test existing concrete slab to make sure there is no efflorescence or high levels of alkalinity. Alkalinity refers to a high pH reading which means the floor is not neutral. A high alkaline environment can cause salts to creep up through the cement called efflorescence. These salts have a tendency to prevent or destroy the bonding of coatings to the concrete. The most common form of testing is the use of a wide-range pH paper or tape. Make sure the floors pH reading ranges between 5-9 to ensure adhesion. The testing of concrete for alkalinity can show the amount of alkalinity only at the time the test is ran, and cannot be used to predict long-term conditions. Calcium chloride tests should be conducted to determine if the concrete is sufficiently dry for a floor coating's installation. The calcium chloride tests should be conducted in accordance with the latest edition of ASTM F 1869, Standard Test Method for Measuring Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride. When running a calcium chloride test, it is important to remove any grease, oil, curing agents, etc. so accurate readings can be obtained. A rate of 3 lbs/1000ft<sup>2</sup>/24hr period or less is an acceptable amount of vapor pressure. If the reading is any higher, please consult your Rainguard Salesman for further instructions. DO NOT APPLY over existing graffiti. Clean the surface to the desired look before applying VandlGuard Single-Part Urethane Clear Coat. Using this product over existing graffiti will trap the graffiti, and will not allow it to be removed without stripping the coating. Failing to adhere to these strict guidelines can result in product delamination, discoloration, blistering, or all together failure of the coating system. Testing is the responsibility of the applicator. Rainguard bears no responsibility for failures due to any of the above conditions.



## Limitations

- Do not apply in temperatures below 50°F or above 90°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)
- Rainguard recommends the use of angular slip resistant aggregate in all coatings or flooring systems that may be exposed to wet, oily or greasy conditions. It is the contractor and end users' responsibility to provide a flooring system that meets current safety standards.
- OK for use as an Industrial Maintenance Coating, Concrete Masonry Sealer, or Floor Coating, anywhere in the United States, including the South Coast Air Quality Management District (SCAQMD).
- Please become familiar with local Air Quality laws and regulations prior to applying this coating. Rainguard bears no responsibility for improper usage.

## Precautions

### Handling Precautions:

Material is flammable. Extinguish all flames, pilot lights and electric motors until all vapors are gone and the coating is hard. The vapor is harmful. Use only with adequate ventilation and/or appropriate cartridge type respirator. Avoid contact with skin and wear protective gloves. Read Material Safety Data Sheets before using.

### Slip and Fall Precautions:

Rainguard recommends the use of slip-resistant aggregate in all coating or flooring systems that may be exposed to wet, oily or greasy conditions. These aggregates can be incorporated into the materials using different methods to achieve varying profiles and degrees of slip-resistance. However, textured surfaces can be slippery under certain conditions. This type of activity on the flooring surface, maintenance procedures and type of footwear may all be factors to consider when deciding the degree of slip-resistance needed for given area. Rainguard or its sales agents will not be responsible for injury incurred in a slip and fall situation. It is the end users' responsibility to provide for their own safety and to determine the suitability of these coatings for their particular application.

## Test Data

IPA	No Effect
MEK	No Effect
Toluene	No Effect
50% Sodium Hydroxide	No Effect
50% Phosphoric Acid	No Effect
Aniline	Stain Only
50% Sulfuric Acid	Stain Only
37% Hydrochloric Acid	Lifting
100% Acetic Acid	Failure

## Technical Data

V.O.C.	< 50 g/L V.O.C. Compliant
Weight	Approximately 8.25 lbs./gal.
Volume Solids	90%
Color of Material	Clear
Odor	Slight Latex Smell
Viscosity @77° F (Brookfield)	50-100 Cps
Surface Dry/Recoat	4-6 Hours
Direct Impact	140 inch-lbs
Reverse Impact	40 inch-lbs
Pencil Hardness	2H
Taber Abrasion, CS 17 Wheel, 5 to 7 days	1000g load, 1000 cycles