

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 |
|--------------------------|----------------------|----------------------------|---------------------|--------------------|------------------|
| VG-7020 - VG-7025 | Urethane | 5/10 Year M & L | ✓ | ✓ | ✓ |
| 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 |
|--------------------------|----------------------|--------------------|--------------|-------------------------|-----------------|--------------|
| VG-7020 - VG-7025 | Urethane | ✓ | ✓ | ✓ | ✓ | ✓ |
| 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

Warranty Application available on the product page at Rainguardpro.com

Five Year Warranty

Apply one coat of VandlGuard® Urethane

Ten year Warranty

Apply two coats of VandlGuard® Urethane

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 |



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 No. 244 Series IV | 95% Red 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 |

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 |

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 |

