2K WATERBASED ANTI-GRAFFITI COATING

PRODUCT INFORMATION

Revised: August 3, 2020

PRODUCT DESCRIPTION

2K WATERBASED ANTI-GRAFFITI COATING is a two component, hydrophobic polyurethane that is <100g/L VOC. It provides excellent graffiti resistance, color and gloss retention.

- Low odor, <100g/L VOC
- Excellent anti-graffiti resistance
- Apply over multiple coating types
- Brush, roll or spray
- Excellent gloss retention
- Clear tint bases (B65T194, Gloss and B65T195, Satin) can be used as clear coats

PRODUCT CHARACTERISTICS

Finish: Gloss or Satin
Color: Clear (B65T194, Gloss and B65T195, Satin), White or a wide variety of colors
Mix Ratio: 3:1 by volume
Volume Solids: 51% ± 2%, theoretical
Weight Solids: 57% ± 2%, theoretical

VOC (EPA Method 24): <100 g/L; 0.85 lb/gal, may vary by color

Recommended Spreading Rate per coat:

<table>
<thead>
<tr>
<th>Wet mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 (100)</td>
<td>8.0 (200)</td>
<td></td>
</tr>
</tbody>
</table>

| Dry mils (microns) | 2.0 (50) | 4.0 (100) |

| Coverage sq ft/gal | 204 (5.0) | 408 (10.0) |

Theoretical coverage sq ft/gal

| m²/L @ 1 mil / 25 microns dft | 816 (20.0) |

Drying Schedule @ 3.0 mils wet (75 microns):

<table>
<thead>
<tr>
<th>@ 50°F/10°C</th>
<th>@ 77°F/25°C</th>
<th>@ 120°F/49°C (50% RH)</th>
</tr>
</thead>
<tbody>
<tr>
<td>To touch:</td>
<td>6 hours</td>
<td>4 hours</td>
</tr>
<tr>
<td>To handle:</td>
<td>8 hours</td>
<td>6 hours</td>
</tr>
<tr>
<td>To cure:</td>
<td>21 days</td>
<td>14 days</td>
</tr>
</tbody>
</table>

Abrading required prior to recoating or topcoating.

Drying time is temperature, humidity, and film thickness dependent.

Pot Life: 1.5 hours

Sweat-in-time: None required

Shelf Life:
Part A: 12 months, unopened
Part B: 24 months, unopened
Store indoors at 40°F (4.5°C) to 100°F (38°C).

Flash Point: >230°F (110°C), PMCC, mixed
Clean Up: Water
Reducer: R8K10, up to 10% as needed

Recommended Uses

- For use over prepared interior or exterior surfaces requiring protection from graffiti defacing
- For use on:
  - Bridge Abutments
  - Schools
  - Overpasses
  - New Construction
- As a non-sacrificial permanent anti-graffiti coating.
- Acceptable for use in high performance architectural applications.
- Suitable for use in USDA inspected facilities

Performance Characteristics

GRAFFITI RESISTANCE
ASTM D 6578-00

<table>
<thead>
<tr>
<th>Marking Substance</th>
<th>Recommended Cleaners</th>
<th>Cleanability Levels</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wax Crayon</td>
<td>Dry cotton cloth / Commercial aqueous detergent</td>
<td>1</td>
</tr>
<tr>
<td>Water Based Red Spray Paint</td>
<td>Dry cotton cloth / Citrus cleaner</td>
<td>1</td>
</tr>
<tr>
<td>Solvent Based Black Spray Paint</td>
<td>Citrus cleaner / Industrial cleaner</td>
<td>3</td>
</tr>
<tr>
<td>Solvent Based Perm. Blue Marker</td>
<td>Citrus cleaner / Industrial cleaner</td>
<td>3</td>
</tr>
<tr>
<td>Solvent Based Perm. Red Marker</td>
<td>Citrus cleaner / Industrial cleaner</td>
<td>3</td>
</tr>
</tbody>
</table>

Graffiti resistance test results:

- Abrasion Resistance
  - ASTM D4060, CS17 wheel, 1000 cycles, 1Kg load
  - 42.2 mg loss

- Accelerated Weathering QUV-A
  - ASTM D4587, 2,000 hours (White)
  - >80% gloss retention; <1.5 DE color change

- Flexibility
  - ASTM D522, 180° bend, 1/4" mandrel
  - Pass

- Fluid Resistance
  - ASTM D1308
  - Pass, Paint Thinner and Gasoline

- Pencil Hardness
  - ASTM D3363
  - 3H

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The systems listed above are representative of the product's use, other systems may be appropriate.

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**Surface Preparation**

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion. Do not use hydrocarbon solvents for cleaning.

Refer to product Application Bulletin for detailed surface preparation information.

Refer to data page of the coating to be topcoated.

<table>
<thead>
<tr>
<th>Condition of Surface</th>
<th>ISO 8501-1</th>
<th>Swedish Std.</th>
<th>SSPC</th>
<th>NACE</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Metal</td>
<td>Sa 3</td>
<td>Sa 3</td>
<td>SP 5</td>
<td>1</td>
</tr>
<tr>
<td>Near White Metal</td>
<td>Sa 2.5</td>
<td>Sa 2.5</td>
<td>SP 10</td>
<td>2</td>
</tr>
<tr>
<td>Commercial Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 6</td>
<td>3</td>
</tr>
<tr>
<td>Brush-Off Blast</td>
<td>Sa 1</td>
<td>Sa 1</td>
<td>SP 7</td>
<td>4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>D St 2</td>
<td>SP 2</td>
<td>-</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
<td>Rusted</td>
<td>D St 3</td>
<td>SP 3</td>
<td>-</td>
</tr>
</tbody>
</table>

**Tinting**

Tint part A with CCE. Tint at 75% strength formula.

**Graffiti Removal Instructions**

Apply graffiti removal material liberally to surface using brush and/or roller. Allow to dwell on surface 5 – 30 mins. Do not allow to dry on surface. Pressure wash utilizing maximum 3000 PSI clean water. Generally pressures of 1000 PSI – 2000 PSI are adequate. However this varies with type of graffiti. Care must be taken to not damage coating system. During dwell cycle agitation of surface with nylon type scrub brush may be required. Repeat as needed. At conclusion of removal rinse surface completely with clean water at low pressure.

For Ohio DOT removal procedure, please see technical bulletin, Graffiti Removal Procedure, Ohio Department of Transportation.

**Application Conditions**

Temperature: 50°F (10°C) minimum, 120°F (49°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point

Relative humidity: 85% maximum

Refer to product Application Bulletin for detailed application information.

**Ordering Information**

Packaging:
- Part A: 3/4 gallon in 1 gallon container, 3 gallons in 5 gallon container
- Part B: 1 quart, 1 gallon

Weight: 9.2 ± 0.2 lb/gal

**Safety Precautions**

Refer to the SDS sheet before use.

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

**Warranty**

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**2K WATERBASED ANTI-GRAFFITI COATING**

**APPLICATION BULLETIN**

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**Surface Preparations**

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Do not use hydrocarbon solvents for cleaning.

**Iron & Steel**

Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1 (recommended preparation is Steam Cleaning). For better performance, use Commercial Blast Cleaning per SSPC-SP6/NACE 3, blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel within 8 hours or before flash rusting occurs. Primer required.

**Masonry and Block**

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Cement-Plex 875. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Laitance must be removed.

**Previously Painted Surfaces**

If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this product attacks the previous finish, removal of the previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.

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**Surface Preparation Standards**

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</tr>
<tr>
<td>Brush-Off Blast</td>
<td></td>
<td>Sa 1</td>
<td>SP 4</td>
</tr>
<tr>
<td>Hand Tool Cleaning</td>
<td>Rusted</td>
<td>CSt 3</td>
<td>SP 2</td>
</tr>
<tr>
<td></td>
<td>Pitted &amp; Rusted</td>
<td>D St 3</td>
<td>SP 3</td>
</tr>
<tr>
<td>Power Tool Cleaning</td>
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</tr>
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<td></td>
<td>Pitted &amp; Rusted</td>
<td>D St 3</td>
<td>SP 3</td>
</tr>
</tbody>
</table>

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**Application Conditions**

- **Temperature:** 50°F (10°C) minimum, 120°F (49°C) maximum (air, surface, and material)
- **Relative humidity:** 85% maximum

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**Application Equipment**

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

**Clean Up:** Water

**Reducer:** R8K10, up to 10% as needed

**Airless Spray**

- Pressure: 2700-3000 psi
- Hose: 1/4” ID
- Tip: .013”-.017”
- Filter: 60 mesh
- Reduction: As needed up to 10% by volume

**Conventional Spray**

- Gun: DeVilbiss JGA
- Fluid Nozzle: E
- Air Nozzle: 765
- Atomization Pressure: 45-55 psi
- Fluid Pressure: 10-20 psi
- Reduction: As needed up to 10% by volume

**Brush**

- Brush: Nylon/polyester natural bristle
- Reduction: As needed up to 10% by volume

**Roller**

- Cover: 1/4”-3/8” woven solvent resistant core
- Reduction: As needed up to 10% by volume

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If specific application equipment is not listed above, equivalent equipment may be substituted.

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**Protective & Marine Coatings**

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Dual Airless Sprayer
Mix contents of each component thoroughly using low speed power agitation. Make certain no pigment remains on the bottom of the can. Exercise caution not to whip air into the materials. Then combine three parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with low speed power agitation. Re-stir before using. No sweat-in-time is required.

If reducer is used, add only after both components have been thoroughly mixed.

Apply paint at the recommended film thickness and spreading rate as indicated below:

**Recommended Spreading Rate per coat:**

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<th>Wet mils (microns)</th>
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<td>8.0 (200)</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dry mils (microns)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
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<td>2.0 (50)</td>
<td>4.0 (100)</td>
<td></td>
</tr>
</tbody>
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<table>
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<tr>
<th>Coverage sq ft/gal (m²/L)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
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<td>204 (5.0)</td>
<td>408 (10.0)</td>
<td></td>
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</tbody>
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<tr>
<th>Theoretical coverage sq ft/gal (m²/L)</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>816 (20.0)</td>
<td></td>
<td></td>
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**Drying Schedule @ 3.0 mils wet (75 microns):**

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<th>To touch:</th>
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<td>6 hours</td>
</tr>
<tr>
<td>To cure:</td>
<td>21 days</td>
<td>14 days</td>
<td>7 days</td>
</tr>
</tbody>
</table>

Abrading required prior to recoating or topcoating.

Drying time is temperature, humidity, and film thickness dependent.

<table>
<thead>
<tr>
<th>Pot Life:</th>
<th>1.5 hours</th>
<th>1.5 hours</th>
<th>1 hour</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweat-in-time:</td>
<td>None required</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

**Clean Up Instructions**

Clean spills and spatters immediately with soap and warm water. After cleaning, flush spray equipment with Mineral Spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using Mineral Spirits.

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**Application Bulletin**

**Performance Tips**

Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.

Do not use hydrocarbon solvents for cleaning.

Excessive reduction of material can affect film build, appearance, and adhesion.

Allow to dry one week before checking adhesion.

Application of a clear coating may change the color appearance of the base coat. Apply a test patch prior to coating entire project.

Abrading required prior to recoating or topcoating.

The addition of Fade-A-Way Dye Additive to 2K Waterbased Anti-Graffiti Coating provides a temporary color contrast to the existing base coat during application. The colorant generally dissipates within 72 hours. Low temperatures and indirect sunlight will slow the rate of disappearance. Product performance could be affected with this use. Reach out to your Sherwin-Williams representative should you need additional details.

Refer to Product Information sheet for additional performance characteristics and properties.