



# Protective & Marine Coatings

## 2K WATERBASED URETHANE ANTI-GRAFFITI COATING

PART A	B65-190	GLOSS SERIES
PART A	B65-195	SATIN SERIES
PART B	B65V190	GLOSS HARDENER
PART B	B65V195	SATIN HARDENER

Revised 8/11

### PRODUCT INFORMATION

5.32

#### PRODUCT DESCRIPTION

**2K WATERBASED URETHANE ANTI-GRAFFITI COATING** is a two component, low VOC, super-hydrophobic polyurethane. It provides excellent graffiti resistance, color and gloss retention.

- Low odor, low VOC
- Excellent anti-graffiti resistance
- Apply over multiple coating types
- Brush, roll or spray
- Waterbased Fade-A-Way Dye Additive available
- Excellent gloss retention
- Tint with Envirotoners or BAC colorants

#### PRODUCT CHARACTERISTICS

**Finish:** Gloss or Satin  
**Color:** Clear, 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:

	Minimum	Maximum
<b>Wet mils</b> (microns)	4.0 (100)	8.0 (200)
<b>Dry mils</b> (microns)	2.0 (50)	4.0 (100)
<b>~Coverage sq ft/gal</b> (m <sup>2</sup> /L)	204 (5.0)	408 (10.0)
<b>Theoretical coverage sq ft/gal</b> (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	816 (20.0)	

#### Drying Schedule @ 3.0 mils wet (75 microns):

	@ 50°F/10°C	@ 77°F/25°C 50% RH	@ 120°F/49°C
<b>To touch:</b>	6 hours	4 hours	4 hours
<b>To handle:</b>	8 hours	6 hours	6 hours
<b>To cure:</b>	21 days	14 days	7 days
<i>Abrading required prior to recoating or topcoating.</i>			
<i>Drying time is temperature, humidity, and film thickness dependent.</i>			
<b>Pot Life:</b>	1.5 hours	1.5 hours	1 hour
<b>Sweat-in-time:</b>	None required		

**Shelf Life:** 12 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
  - Commercial Buildings
  - Transit Stations
  - Railcars
- Acceptable for use in high performance architectural applications.

#### PERFORMANCE CHARACTERISTICS

##### GRAFFITI RESISTANCE ASTM D 6578-00

Marking Substance:	Recommended Cleaners:	Cleanability Levels:
Wax Crayon	Dry cotton cloth / Commercial aqueous detergent	1
Water Based Red Spray Paint	Dry cotton cloth / Citrus cleaner	1
Solvent Based Black Spray Paint	Citrus cleaner / Industrial cleaner	3
Solvent Based Perm. Blue Marker	Citrus cleaner / Industrial cleaner	3
Solvent Based Perm. Red Marker	Citrus cleaner / Industrial cleaner	3

cleanability levels 1-5 are defined as:

- Level 1 Graffiti completely removed with dry cotton cloth.
- Level 2 Graffiti completely removed with commercial aqueous detergent.
- Level 3 Graffiti completely removed with citrus cleaner.
- Level 4 Graffiti completely removed with industrial cleaner/Isopropanol.
- Level 5 Graffiti completely removed with MEK.

Test Name	Test Method	Results
<b>Abrasion Resistance</b>	ASTM D4060, CS17 wheel, 1000 cycles, 1Kg load	42.2 mg loss
<b>Accelerated Weathering QUV-A</b>	ASTM D4587, 2,000 hours (White)	>80% gloss retention; <1.5 DE color change
<b>Flexibility</b>	ASTM D522, 180° bend, 1/4" mandrel	Pass
<b>Pencil Hardness</b>	ASTM D3363	3H



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<b>PART B</b>	<b>B65V190</b>	<b>GLOSS HARDENER</b>
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### PRODUCT INFORMATION

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#### RECOMMENDED SYSTEMS

	Dry Film Thickness / ct.	
	Mils	(Microns)
<b>Steel:</b>		
1 ct. ProCryl Universal WB Primer	3.0-4.0	(75-100)
1 ct. 2K WB Urethane Anti-Graffiti	2.0-4.0	(50-100)
<b>Steel:</b>		
1 ct. Waterbased Tile-Clad Epoxy Primer	2.0-4.0	(50-100)
1 ct. 2K WB Urethane Anti-Graffiti	2.0-4.0	(50-100)
<b>Steel:</b>		
1 ct. Macropoxy 646	5.0-10.0	(125-250)
1 ct. 2K WB Urethane Anti-Graffiti	2.0-4.0	(50-100)
<b>Steel:</b>		
1 ct. Macropoxy 646	5.0-10.0	(125-250)
1 ct. Acrolon 218 HS	3.0-6.0	(75-150)
1 ct. 2K WB Urethane Anti-Graffiti	2.0-4.0	(50-100)
<b>Concrete/Masonry:</b>		
1 ct. Cement-Plex 875 (as required to fill voids and provide a continuous surface)	13.0-25.0	(325-625)
1 ct. 2K WB Urethane Anti-Graffiti	2.0-4.0	(50-100)
<u>Other acceptable surfacers are:</u>		
Heavy Duty Block Filler		
Kem Cati-Coat HS Epoxy Filler/Sealer		
<b>Concrete, smooth:</b>		
1 ct. Waterbased Tile-Clad Epoxy Finish	2.0-4.0	(50-100)
1 ct. 2K WB Urethane Anti-Graffiti	2.0-4.0	(50-100)
<b>or</b>		
1 ct. 2K WB Urethane Anti-Graffiti	2.0-4.0	(50-100)

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

#### DISCLAIMER

The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin-Williams representative to obtain the most recent Product Data Information and Application Bulletin.

#### 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.

Surface Preparation Standards					
Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE	
White Metal	Sa 3	Sa 3	SP 5	1	
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2	
Commercial Blast	Sa 2	Sa 2	SP 6	3	
Brush-Off Blast	Sa 1	Sa 1	SP 7	4	
Hand Tool Cleaning	C St 2	C St 2	SP 2	-	
Pitted & Rusted	D St 2	D St 2	SP 2	-	
Power Tool Cleaning	C St 3	C St 3	SP 3	-	
Pitted & Rusted	D St 3	D St 3	SP 3	-	

#### TINTING

Tint part A with BAC or Envirotone colorants. Tint at 75% strength formula.

#### 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 MSDS 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

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



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### 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.

#### 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

#### 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

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

#### Surface Preparation Standards

Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal	Sa 3	Sa 3	SP 5	1
Near White Metal	Sa 2.5	Sa 2.5	SP 10	2
Commercial Blast	Sa 2	Sa 2	SP 6	3
Brush-Off Blast	Sa 1	Sa 1	SP 7	4
Hand Tool Cleaning	C St 2	C St 2	SP 2	-
Pitted & Rusted	D St 2	D St 2	SP 2	-
Power Tool Cleaning	Rusted C St 3	C St 3	SP 3	-
	Pitted & Rusted D St 3	D St 3	SP 3	-



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#### APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

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:

	Minimum	Maximum
<b>Wet mils</b> (microns)	<b>4.0</b> (100)	<b>8.0</b> (200)
<b>Dry mils</b> (microns)	<b>2.0</b> (50)	<b>4.0</b> (100)
<b>~Coverage sq ft/gal</b> (m <sup>2</sup> /L)	<b>204</b> (5.0)	<b>408</b> (10.0)
Theoretical coverage <b>sq ft/gal</b> (m <sup>2</sup> /L) @ 1 mil / 25 microns dft	<b>816</b> (20.0)	

#### Drying Schedule @ 3.0 mils wet (75 microns):

	@ 50°F/10°C	@ 77°F/25°C	@ 120°F/49°C
		<b>50% RH</b>	
<b>To touch:</b>	6 hours	4 hours	4 hours
<b>To handle:</b>	8 hours	6 hours	6 hours
<b>To cure:</b>	21 days	14 days	7 days
<i>Abbrading required prior to recoating or topcoating.</i>			
<i>Drying time is temperature, humidity, and film thickness dependent.</i>			
<b>Pot Life:</b>	1.5 hours	1.5 hours	1 hour
<b>Sweat-in-time:</b>	None required		

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. Clean hands and tools immediately after use 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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#### 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.

Abbrading required prior to recoating or topcoating.

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

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