



**Industrial
&
Marine
Coatings**

1.26

**SHER-CRYL™ HPA
HIGH PERFORMANCE ACRYLIC**

**B66-300 SERIES
B66-350 SERIES**

**GLOSS
SEMI-GLOSS**

PRODUCT INFORMATION

Revised 10/06

PRODUCT DESCRIPTION	RECOMMENDED USES																				
<p>SHER-CRYL HPA is a new technology, ambient cured, one component acrylic coating with superior exterior performance properties. Provides performance comparable to high performance solvent based coatings such as urethanes and epoxies.</p> <ul style="list-style-type: none"> • Chemical resistant • Superior color and gloss retention • Outstanding early moisture resistance • Flash rust/early rust resistant • Suitable for use in USDA inspected facilities • Low odor • Corrosion resistant • Fast dry 	<p>For use over prepared:</p> <ul style="list-style-type: none"> • Steel • Aluminum • Zinc rich primers • Can be used as a dryfall coating under certain environmental conditions (see Application Bulletin) <p>Galvanizing</p> <ul style="list-style-type: none"> • Concrete • Wood • Masonry <p>Examples:</p> <ul style="list-style-type: none"> • Buildings • Machinery • Power plants • Select Marine Structures • Storage Tanks • Equipment • Piping • Water treatment plants • New Construction • Structural Steel <p>Conforms to AWWA D102-03 OCS #3 Acceptable for use in high performance architectural applications.</p>																				
PRODUCT CHARACTERISTICS	PERFORMANCE CHARACTERISTICS																				
<p>Finish: High Gloss or Semi-Gloss</p> <p>Color: Wide range of colors available</p> <p>Volume Solids: 38.5% ± 2%, Ultra White</p> <p>Weight Solids: 51% ± 2%, Ultra White</p> <p>VOC (EPA Method 24): <200 g/L; 1.66 lb/gal</p> <p>Recommended Spreading Rate per coat:</p> <p>Wet mils: 6.0 - 10.0 Dry mils: 2.5 - 4.0 Coverage: 154 - 247 sq ft/gal approximate</p> <p>NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.</p> <p>Drying Schedule @ 7.0 mils wet 50% RH:</p> <table border="1"> <thead> <tr> <th></th> <th>@ 50°F</th> <th>@ 77°F</th> <th>@ 120°F</th> </tr> </thead> <tbody> <tr> <td>To touch:</td> <td>1 hours</td> <td>30 minutes</td> <td>5 minutes</td> </tr> <tr> <td>Tack free:</td> <td>8 hours</td> <td>5 hours</td> <td>15 minutes</td> </tr> <tr> <td>To recoat:</td> <td>8 hours</td> <td>5 hours</td> <td>15 minutes</td> </tr> <tr> <td>To cure:</td> <td>30 days</td> <td>30 days</td> <td>30 days</td> </tr> </tbody> </table> <p>Drying time is temperature, humidity, and film thickness dependent.</p> <p>Shelf Life: 36 months, unopened Store indoors at 40°F to 100°F.</p> <p>Flash Point: >230°F, Seta Flash</p> <p>Reducer/Clean Up: Water</p>		@ 50°F	@ 77°F	@ 120°F	To touch:	1 hours	30 minutes	5 minutes	Tack free:	8 hours	5 hours	15 minutes	To recoat:	8 hours	5 hours	15 minutes	To cure:	30 days	30 days	30 days	<p>System Tested: (unless otherwise indicated) Substrate: Steel Surface Preparation: SSPC-SP10 2 cts. Sher-Cryl HPA @ 3 mils dft/ct</p> <p>Adhesion: Method: ASTM D4541 Result: 946 psi</p> <p>Corrosion Weathering with Pro-Cryl Primer: Method: ASTM D5894, 3360 hours, 10 cycles Result: Rating 10, per ASTM D714 for blistering Rating 9 per ASTM D1654 for corrosion</p> <p>Direct Impact Resistance: Method: ASTM D2794 Result: >100 in. lbs</p> <p>Dry Heat Resistance: Method: ASTM D2485 Result: 300°F</p> <p>Exterior Durability: Method: 3 years, 45° South Result: Excellent</p> <p>Flexibility: Method: ASTM D522, 180° bend, 1/8" mandrel Result: Passes</p> <p>Humidity Resistance with Pro-Cryl Primer: Method: ASTM D4585, 1250 hours Result: Rating 10 per ASTM D714 for blistering Rating 10 per ASTM D1654 for corrosion</p> <p>Pencil Hardness: Method: ASTM D3363 Result: 2B</p> <p>Salt Fog Resistance with Pro-Cryl Primer: Method: ASTM B117, 1250 hours Result: Rating 10 per ASTM D714 for blistering Rating 9 per ASTM D1654 for corrosion</p> <p>Thermal Cycling: Method: ASTM D2246, 10 cycles Result: Passes</p> <p>Provides performance comparable to products formulated to federal specification: AA50570, and Paint Specification: SSPC-Paint 23 and 24.</p> <p>Meets or exceeds performance of MIL-PRF-24596A Flame Retardant Latex.</p>
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PRODUCT INFORMATION

RECOMMENDED SYSTEMS	SURFACE PREPARATION																
<p>Steel: 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Steel: 1 ct. Pro-Cryl Universal Primer @ 2.0 - 4.0 mils dft 1-2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Steel: 1 ct. DTM Acrylic Primer/Finish @ 2.5 - 5.0 mils dft or Kem Bond HS @ 2.0 - 5.0 mils dft or Zinc Clad Primer @ 3.0 - 5.0 mils dft 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Steel: 1 ct. Zinc Clad XI @ 3.0 - 4.0 mils dft 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Aluminum: 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Aluminum: 1 ct. DTM Wash Primer, @ 0.7 - 1.3 mils dft 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Galvanizing: 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Concrete Block: 1 ct. Heavy Duty Block Filler @ 10.0 - 18.0 mils dft 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Concrete/Masonry: 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Prefinished Siding: (Baked-on finishes) 1 ct. DTM Bonding Primer @ 2.0 - 5.0 mils dft 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Wood, exterior: 1 ct. A-100 Exterior Oil Wood Primer @ 1.5 mils dft 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>Wood, interior: 1 ct. PrepRite Classic Latex Primer @ 1.6 mils dft 2 cts. Sher-Cryl HPA @ 2.5 - 4.0 mils dft/ct</p> <p>The systems listed above are representative of the product's use, other systems may be appropriate.</p>	<p>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.</p> <p>Do not use hydrocarbon solvents for cleaning.</p> <p>Refer to product Application Bulletin for detailed surface preparation information.</p> <p>Minimum recommended surface preparation:</p> <table border="0"> <tr> <td>Iron & Steel:</td> <td>SSPC-SP2</td> </tr> <tr> <td>Aluminum:</td> <td>SSPC-SP1</td> </tr> <tr> <td>Galvanizing:</td> <td>SSPC-SP1</td> </tr> <tr> <td>Concrete & Masonry:</td> <td>SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3</td> </tr> </table> <p>* Wood: Dry and sanded smooth * Prefinished Siding: SSPC-SP1 * Requires primer</p> <p style="text-align: center;">TINTING</p> <p>Tint with EnviroToner Colorants at 100% strength. Five minutes minimum mixing on a mechanical shaker is required for complete mixing of color.</p> <p>Do not use Blend-A-Color Toner.</p> <p style="text-align: center;">APPLICATION CONDITIONS</p> <table border="0"> <tr> <td>Temperature:</td> <td>50°F minimum, 120°F maximum (air, surface, and material)</td> </tr> <tr> <td>Relative humidity:</td> <td>At least 5°F above dew point 85% maximum</td> </tr> </table> <p>Refer to product Application Bulletin for detailed application information.</p> <p style="text-align: center;">ORDERING INFORMATION</p> <table border="0"> <tr> <td>Packaging:</td> <td>1 and 5 gallon containers</td> </tr> <tr> <td>Weight per gallon:</td> <td>10.30 ± 0.2 lb</td> </tr> </table> <p style="text-align: center;">SAFETY PRECAUTIONS</p> <p>Refer to the MSDS sheet before use.</p> <p>Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.</p>	Iron & Steel:	SSPC-SP2	Aluminum:	SSPC-SP1	Galvanizing:	SSPC-SP1	Concrete & Masonry:	SSPC-SP13/NACE 6, or ICRI 03732, CSP 1-3	Temperature:	50°F minimum, 120°F maximum (air, surface, and material)	Relative humidity:	At least 5°F above dew point 85% maximum	Packaging:	1 and 5 gallon containers	Weight per gallon:	10.30 ± 0.2 lb
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DISCLAIMER	WARRANTY																
<p>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.</p>	<p>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.</p>																



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APPLICATION BULLETIN

APPLICATION PROCEDURES

Surface preparation must be completed as indicated.

Mixing Instructions: Mix paint thoroughly by boxing and stirring before use.

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

Recommended Spreading Rate per coat:

Wet mils:	6.0 - 10.0
Dry mils:	2.5 - 4.0
Coverage:	154 - 247 sq ft/gal approximate

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 7.0 mils wet 50% RH:

	@ 50°F	@ 77°F	@ 120°F
To touch:	1 hours	30 minutes	5 minutes
Tack free:	8 hours	5 hours	15 minutes
To recoat:	8 hours	5 hours	15 minutes
To cure:	30 days	30 days	30 days

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

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

PERFORMANCE TIPS

Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.

When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle

During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.

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.

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

Application temperature above 95°F may cause dry spray, uneven sheen, and poor adhesion.

Application temperature below 50°F may cause poor adhesion and lengthen the drying and curing time.

High Performance Acrylic is extremely sensitive to hydrocarbon containing solvents. When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse. Do not use hydrocarbon containing solvents.

Do not use hydrocarbon solvents for cleaning.

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.

NOTE: If coating is allowed to "set-up", Reducer #54, R7K54, may be required for cleaning. Follow manufacturer's safety recommendations when using Reducer #54.

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

Sher-Cryl can be used as a dryfall coating in certain environmental conditions. Test product before each application. Test by spraying 15-25 feet toward paint container. All material should readily wipe clean. Temperature and humidity will affect ability to dryfall. Hot surface will cause overspray to bond to surface. Always clean overspray immediately from hot surfaces.

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.

DISCLAIMER

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WARRANTY

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