

AMERCOAT® 450HSG

March 2012
Revision of November 2011

DESCRIPTION	Semi-gloss Acrylic Aliphatic Polyurethane						
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - Semi-gloss topcoat with unlimited recoatability - Outstanding weather resistance with excellent color and gloss retention - VOC compliant - Hard, flexible, and abrasion resistant - Cures through a wide temperature range 						
COLOR AND GLOSS	<p>Semi-gloss (45-65) Custom Colors</p> <p><i>Certain colors (especially yellow, orange and red) may require additional coats to achieve adequate hiding, particularly when applied over dark or contrasting primer colors. Yellow, red, and other bright colors will typically fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.</i></p>						
BASIC DATA							
Volume solids	65% ± 3%						
VOC	2.2 lbs/gal (264 g/L)						
Recommended Dry film thickness (per coat)	2-5 mils (50-125 microns)						
Theoretical Spread Rate	@ 1 mils dft 1043 ft ² /gal @ 2 mils dft 521 ft ² /gal						
Components	2						
Shelf Life	2 years from date of manufacture						
SURFACE PREPARATION	Coating performance is proportional to the degree of surface preparation. Refer to the application instructions for specific primers and intermediate coats for application and curing procedures. Ensure epoxies are free from amine blush prior to overcoating. All previous coats must dry and free of contaminants. Adhere to all minimum and maximum topcoat times for specific primers and intermediate coats. Aged epoxy coatings may require abrading prior to applying Amercoat 450H.						
ENVIRONMENTAL CONDITIONS							
Ambient temperatures	20°F to 120°F (-6°C to 49°C) Surface temperature must be at least 5°F above dew point temperature.						
Material temperatures	40°F to 90°F (5°C to 32°C)						
Relative humidity	85% maximum						
Surface temperature	20°F to 120°F (-6°C to 49°C)						
General air quality	Area should be sheltered from airborne particulates and pollutants. Ensure good ventilation during application and curing. Provide shelter to prevent wind from affecting spray patterns.						
INSTRUCTIONS FOR USE							
Mixing ratio by volume	4 parts base to 1 part hardener Pre-mix base component with a pneumatic air mixing at moderate speeds to homogenize the container. Add hardener to base and agitate with a power mixer for 1-2 minutes until completely dispersed.						
Pot life	<table border="1" style="width: 100%; text-align: center;"> <tr> <td>50°F</td> <td>70°F</td> <td>90°F</td> </tr> <tr> <td>6 hours</td> <td>4 hours</td> <td>2 hours</td> </tr> </table>	50°F	70°F	90°F	6 hours	4 hours	2 hours
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6 hours	4 hours	2 hours					
Airless spray	28:1 pump or larger, 0.013-0.015 fluid tip Can be applied with plural component equipment						

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Air spray	Thin up to 20%, standard conventional equipment, 0.070" fluid orifice. A moisture and oil trap in the main line is essential. Product is sensitive to moisture contamination.
Brush & roll	Use a high quality natural bristle brush and / or solvent resistant, 1/4" or 3/8" nap roller. Ensure brush / roller is well loaded to avoid air entrainment. Multiple coats may be necessary to achieve adequate film build. <i>Amercoat 851</i> flow control additive can be used to for enhanced flow and leveling with brush and roll application. Multiple coats may be required to achieve proper film build and hiding with roller application.
Thinner	<i>Amercoat 923, Amercoat 101</i> (recommended for > 90°F)
Cleaning solvent	<i>Amercoat 12 Cleaner</i> or thinner
Primers	<i>Amercoat 68HS, Amercoat 68MCZ, Amercoat 370, Amercoat 385, Amercoat 399, Amerlock 2/400, Pittguard Epoxies</i>
Safety precautions	For paint and recommended thinners see safety sheet 1430, 1431 and relevant material safety data sheets This is a solvent borne paint and care should be taken to avoid inhalation of spray mist or vapor as well as contact between the wet paint and exposed skin or eyes.

DRY/CURE TIMES

Amercoat 450HSG @ 2 mils dft

	32°F	50°F	70°F	90°F
Dry to touch	4 hours	4 hours	2 hours	1 hour
Dry through	72 hours	36 hours	18 hours	6 hours
Dry to recoat	24 hours	12 hours	4 hours	2 hours
Maximum recoat	Unlimited			

Amercoat 450HSG with 866M Accelerator @ 2 mils dft

	20°F	32°F	50°F	70°F	90°F
Dry to touch	8 hours	4 hours	75 minutes	25 minutes	10 minutes
Dry through	72 hours	36 hours	8 hours	2.5 hours	1.75 hours
Dry to recoat	24 hours	12 hours	6 hours	2 hours	1 hour
Maximum recoat	Unlimited				

PRODUCT QUALIFICATIONS AVAILABILITY

Packaging

– Compliant with USDA Incidental Food Contact Requirements

Available in 1-gallon and 5-gallon kits
1-gallon kits have 0.8 gallons of base and 0.2 gallons of hardener
5- gallon kits have 4 gallons of base and 1 gallon of hardener

Product codes

AT 45SG-3 White base
AT 45SG-9 Black base
AT 45SG-T1 Deep tint base
AT 45SG-T2 Light tint base
AT 45SG-T3 Neutral tint base
AT 45SG-T4 Red tint base
AT 45SG-T5 High Hiding Yellow tint base
AT 45SG-B Hardener component

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Worldwide statement

While it is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

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