

AMERSHIELD VOC

April 2012
Revision of March 2012

DESCRIPTION	Polyester-Acrylic Aliphatic Polyurethane
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - Unique, high-solids, high build coatings - Outstanding weather resistance with excellent color and gloss retention - Tough, flexible, and abrasion resistant finish - Good chemical and stain resistance - Direct to metal and concrete in protected environments - Compliant with California SCAQMD Rule 1113
COLOR AND GLOSS	<p>Custom Colors</p> <p>Gloss</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	73% ± 3%
VOC	0.7 lbs/gal (84 g/L)
Recommended Dry film thickness (per coat)	3 – 6 mils (75 – 150 microns)
Theoretical Spread Rate	@ 1 mil dft 1171 ft ² / gallon @ 5 mils dft 234 ft ² / gallon
Components	2
Shelf Life	2 years from date of manufacture
SURFACE PREPARATION	<p>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 Amershield.</p> <ul style="list-style-type: none"> - Abrasive blast to SSPC SP-6 or higher with a 1.0-3.0 mil surface profile. - Lightly abrasive blast with a fine abrasive in accordance with SSPC SP-16 guidelines - see specific primer
Steel	
Non-ferrous metals and stainless steel-	
Concrete / Masonry	
ENVIRONMENTAL CONDITIONS	
Ambient temperatures*	40°F to 120°F (-6°C to 49°C) With <i>Amercoat 866M Accelerator</i> 32°F to 100°F (0°C to 36°C)
Material temperatures	40°F to 90°F (5°C to 32°C)
Relative humidity	85% maximum
Surface temperature	40°F to 120°F (-6°C to 49°C) With <i>Amercoat 866M Accelerator</i> 32°F to 100°F (0°C to 36°C) Surface temperature must be at least 5°F above the dew point temperature.
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.

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INSTRUCTIONS FOR USE

Mixing ratio by volume

4 parts base to 1 part hardener

Pre-mix pigmented components with a pneumatic air mixer 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

Temperature	50°F	70°F	90°F
Amershield VOC	5 hours	2.5 hours	1.5 hours
Amershield VOC with 866M accelerator	2 hours	1 hour	30 minutes

Airless spray

28:1 pump or larger, 0.013-0.015 fluid tip
Can be applied with plural component equipment

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. *Amercoat* 851 flow control additive can be used to for enhanced flow and leveling with brush and roll application. (use of 851 additive at greater than 2.5 oz/gal will increase the VOC to > 100 g/L.) Multiple coats may be required to achieve proper film build and hiding with roller application.

Thinner

PPG 97-739 (exempt), *Amercoat* 65 (xylene), *Amercoat* 101 (recommended for > 90°F), *Amercoat* 911

Cleaning solvent

Amercoat 12, 12E, or 12V Cleaner, 97-739, *Amercoat* 911 or *Amercoat* 65 thinner (xylene)

Primers

Amercoat 68HS, *Amercoat* 68HS VOC, *Amercoat* 68MCZ, *Amercoat* 370, *Amercoat* 385, *Amercoat* 399, *Amerlock* -series

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*

Amershield VOC @ 5 mils dft

	40°F	50°F	70°F	90°F
Dry to touch	8 hours	4 hours	2.5 hours	1 hour
Dry through	5 hours	72 hours	10 hours	5 hours
Dry to recoat	72 hours	48 hours	8 hours	4 hours
Maximum recoat	168 hours	168 hours	96 hours	12 hours

Amershield VOC with 866M Accelerator @ 5 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	16 hours	10 hours	6 hours	3 hours	2 hours
Dry to recoat	16 hours	8 hours	4 hours	2 hours	1.5 hours
Maximum recoat	96 hours	48 hours	24 hours	12 hours	6 hours

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PRODUCT QUALIFICATIONS – Compliant with USDA Incidental Food Contact Requirements

AVAILABILITY

Packaging 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	AMV-3	White base
	AMV-9	Black base
	AMV-T1	Deep tint base
	AMV-T2	Light tint base
	AMV-T3	Neutral tint base
	AMV-T4	Red tint base
	AMV-T5	High Hiding Yellow tint base
	AMV-71	Safety Red base
	AMV-81	Safety Yellow base
	AMV-23	Pearl Gray base
	AM-B	Hardener component

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