DESCRIPTION
Polyester-Acrylic Aliphatic Polyurethane

PRINCIPAL CHARACTERISTICS
- Unique, high-solids, high build coatings
- Outstanding weather resistance with excellent color and gloss retention
- VOC compliant
- Tough, flexible, and abrasion resistant finish
- Good chemical and stain resistance
- Direct to metal and concrete in protected environments
- SSPC SP 36 Level 3

COLOR* AND GLOSS
Gloss
Custom Colors
* 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.

BASIC DATA
Volume solids 73% ± 3%
VOC* 2.2 lbs/gal (264 g/L)
* For compliance with regulations which require < 100 g/L, Amershield VOC can be specified interchangeably
Recommended
Dry film thickness 3-6 mils per coat (75-150 microns)
Theoretical Spread Rate @ 1 mils dft 1171 ft²/gal
@ 5 mils dft 234 ft²/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 Amershield.

Steel
- Abrasive blast to SSPC SP-6 or higher with a 1.0-3.0 mils surface profile

Aluminum
- Lightly abrasive blast with a fine abrasive

Concrete / Masonry
- See specific primer

ENVIRONMENTAL CONDITIONS
Ambient temperatures 40°F to 120°F (-6°C to 49°C)
With Amercoat 866M Accelerator
32°F to 100°F (0°C to 36°C)
Surface temperature must be at least 5°F above the dew point temperature.

Material temperatures With Amercoat 866M Accelerator
40°F to 90°F (5°C to 32°C)
Relative humidity 85% maximum
Surface temperature Amershield
40°F to 120°F (-6°C to 49°C)
With Amercoat 866M Accelerator
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.

INSTRUCTIONS FOR USE

Mixing ratio by volume
4 parts base to 1 part hardener
Pre-mix base component 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.

<table>
<thead>
<tr>
<th>Pot life</th>
<th>Temperature</th>
<th>50°F</th>
<th>70°F</th>
<th>90°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amershield</td>
<td>5 hours</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amershield with</td>
<td>2 hours</td>
<td></td>
<td></td>
<td>30 minutes</td>
</tr>
<tr>
<td>866M accelerator</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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. Multiple coats may be required to achieve proper film build and hiding with roller application.

Thinner
Amercoat 923, Amercoat 65 (xylene), Amercoat 101 (recommended for > 90 °F), Amercoat 911

Cleaning solvent
Amercoat 12 Cleaner or Amercoat 65 thinner (xylene)

Primers
Amercoat 68HS, Amercoat 68MCZ, Amercoat 370, Amercoat 385, Amercoat 399, Amerlock 2/400, Pittguard Epoxies, Amercoat 435, Amercoat 256

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

<table>
<thead>
<tr>
<th>Dry/Cure Times</th>
<th>40°F</th>
<th>50°F</th>
<th>70°F</th>
<th>90°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to touch</td>
<td>8 hours</td>
<td>4 hours</td>
<td>2.5 hours</td>
<td>1 hour</td>
</tr>
<tr>
<td>Dry through</td>
<td>5 days</td>
<td>72 hours</td>
<td>10 hours</td>
<td>5 hours</td>
</tr>
<tr>
<td>Dry to recoat</td>
<td>72 hours</td>
<td>48 hours</td>
<td>8 hours</td>
<td>4 hours</td>
</tr>
<tr>
<td>Maximum recoat</td>
<td>168 hours</td>
<td>168 hours</td>
<td>96 hours</td>
<td>12 hours</td>
</tr>
</tbody>
</table>

Amershield with 866M Accelerator @ 5 mils dft

<table>
<thead>
<tr>
<th>Temperature</th>
<th>20°F</th>
<th>32°F</th>
<th>50°F</th>
<th>70°F</th>
<th>90°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dry to touch</td>
<td>8 hours</td>
<td>4 hours</td>
<td>75 minutes</td>
<td>25 minutes</td>
<td>10 minutes</td>
</tr>
<tr>
<td>Dry through</td>
<td>16 hours</td>
<td>10 hours</td>
<td>6 hours</td>
<td>3 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td>Dry to recoat</td>
<td>16 hours</td>
<td>8 hours</td>
<td>4 hours</td>
<td>2 hours</td>
<td>1.5 hours</td>
</tr>
<tr>
<td>Maximum recoat</td>
<td>96 hours</td>
<td>48 hours</td>
<td>24 hours</td>
<td>12 hours</td>
<td>6 hours</td>
</tr>
</tbody>
</table>
AMERSHIELD

PRODUCT QUALIFICATIONS
– Compliant with USDA Incidental Food Contact Requirements
– Nuclear Service Level 2
– NFPA Class A Flame Spread

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
AM -3 White base
AM -9 Black base
AM -T1 Deep Tint base
AM -T2 Light Tint base
AM -T3 Neutral Tint base
AM -T4 Red Tint base
AM -T5 High Hiding Yellow Tint base
AM -T1 Safety Red base
AM-81 Safety Yellow base
AM-23 Pearl Gray base
AM -B Hardener (Part B)

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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