PPG Amercoat

Amercoat® 3279

Modified silicone

Product Data/ Application Instructions

- Self-priming coating
- Temperature resistant to 1000°F

Typical Uses

Amercoat 3279 is used as a maintenance coating for high temperature services such as stacks, breeching, furnaces, exhaust mufflers and other applications where operating temperatures range up to 1000°F. (See Temperature Resistance) Amercoat 3279 aluminum is a weather resistant topcoat which has good color retention and appearance in weathering exposure.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Surface must be clean, free of moisture, grease or other contaminants, including salt deposits. Round off all rough welds and sharp edges, remove all weld spatter on areas to be primed.

Steel – Abrasive blast to SSPC - SP10.

Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

Airless spray – Standard equipment such as Graco Bulldog Hydra-Spray 30:1 or larger, with a .017-inch fluid tip.

Conventional spray – Industrial equipment such as DeVilbiss MBC or JGA or Binks 18 or 62 spray gun and a pressure material pot with a mechanical agitator. A moisture and oil trap in the main air supply line; and separate regulators for air and fluid pressure are recommended.

Brush – Natural bristle. Maintain a wet edge.

Roller – Industrial solvent-type. Level any air bubbles with a bristle brush.

Application Procedure

1. Thoroughly clean equipment with Amercoat 12.
2. Stir material until uniformly blended.
3. Spray apply a wet coat in even, parallel passes, overlapping each pass 50 percent to avoid holidays, bare areas and pinholes.
4. When brush or rolled, two coats or more may be required to achieve recommended DFT.
5. Clean all equipment with Amercoat 12 after use.

Physical Data

Finish*	Semi-gloss	
Color	Aluminum	
Components	1	
Curing mechanism	Solvent loss, chemical reaction	
Volume solids (calculated)	55% ± 3%	
Dry film thickness per coat	1 – 2 mils (25 to 50 microns)	
Coats	1	
Theoretical coverage 1 mil (25 microns)	ft^2/gal 882	m^2/L 21.7
VOC (EPA method 24) Amercoat 3279	lb/gal 3.5	g/L 415
Temperature resistance, dry over steel over inorganice zinc	°F 1000 750	°C 538 400
Flash point (SETA) Amercoat 3279 Amercoat 12	°F 91 2	°C 33 -17

Application Data

Applied over	Prepared steel or Dimetcote 9 Series
Surface preparation	Abrasive blast
Primer	Self-primed
Method	Airless, conventional spray, brush or roller

Environmental conditions

Temperature	°F	°C
air and surface	32 to 120	0 to 49

Relative Humidity 85% maximum

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Drying time (hours)	°F/°C		
	90/32	70/21	50/10
handle	5	6	8
recoat (minimum)	$1^1/_2$	2	3

Time before service @ 2-4 mils (hours)	°F/°C		
	90/32	70/21	50/10
High temperature	7	10	13
Abrasion	16	24	48

Equipment cleaner Amercoat 12

**Loss of gloss can occur at temperatures above 400°F.*

Shipping Data

Packaging	1 gal	5 gal
Shipping weight (approx)	lb	kg
1-gal can	9	4
5-gal can	46	21

Numerical values are subject to normal manufacturing tolerances, colors and testing variances. Allow for application losses and surface irregularities.

This product is photochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)
1 year from shipment date

Safety Precautions

Read material safety data sheet before use. Safety precautions must be strictly followed during storage, handling and use.

CAUTION – Improper use and handling of this product can be hazardous to health and cause fire or explosion.

Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.

This product is to be used by those knowledgeable about proper application methods. PPG makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which PPG is unaware and over which it has no control.

If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.

Note: Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

This product is for industrial use only. Not for residential use.

PPG Protective & Marine Coatings
www.ppgpmc.com

One PPG Place, Pittsburgh, PA 15272 • Tel: (800) 441-9695