

AMERCOAT® 3279

DESCRIPTION

High Temperature Modified Silicone Aluminum

PRINCIPAL CHARACTERISTICS

- Resistant to dry temperature up to 1000°F(538°C)
- Applied on prepared steel, stainless steel, or inorganic zinc
- Does not require a heat cure
- High solids formulation
- VOC compliant

COLOR AND GLOSS LEVEL

- Aluminum
- Semi-gloss

BASIC DATA AT 68°F (20°C)

Data for product	
Number of components	One
Volume solids	49 ± 3%
VOC (Supplied)	max. 3.5 lb/US gal (approx. 414 g/l)
Recommended dry film thickness	0.8 - 2.0 mils (19 - 50 µm) depending on system
Theoretical spreading rate	1176 ft ² /US gal for 0.8 mils (28.8 m ² /l for 19 µm)
Shelf life	At least 9 months when stored cool and dry

Notes:

- See ADDITIONAL DATA - Overcoating intervals
- See ADDITIONAL DATA - Curing time

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TEMPERATURE RESISTANCE

Temperature resistance		
First coat	Second coat	Temperature resistance
AMERCOAT 3279 (1.0 - 2.0 mils)	N/A	1000°F (540°C)
AMERCOAT 3279 (1.5 - 2.0 mils)	AMERCOAT 3279 (1.5 - 2.0 mils)	750°F (400°C)
DIMETCOTE 9-series (2.0 - 3.0 mils)	AMERCOAT 3279 (1.5 - 2.0 mils)	750°F (400°C)

Notes:

- Product should be sprayed in a mist coat/full coat technique when applying over inorganic zinc primers
- Amercoat 3279 should only be applied as a direct-to-metal coating in protected (dry) service environments.

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Steel

- Remove weld spatter, protrusions, and laminations in steel. Grind welds smooth in accordance with NACE RP-0178
- Round off sharp edges
- Remove all surface contaminants, oil and grease in accordance with SSPC SP-1
- Abrasive blast with an angular abrasive to an SSPC SP-10 cleanliness or higher. Achieve a surface profile of 1.0 – 1.5 mils (25 – 38 µm)
- Apply this product as soon as possible to avoid rusting of blasted surfaces

Stainless steel

- Abrasive blast with a hard angular abrasive to achieve a uniform and dense anchor profile of 1.0 – 1.5 mils (25 – 38 µm)

Inorganic zinc surfaces

- Surface must be clean, dry and free of zinc salts
- A mist coat / full coat application technique may be required to prevent application bubbling

Substrate temperature and application conditions

- Surface temperature during application should be between 32°F (0°C) and 104°F (40°C)
- Surface temperature during application should be at least 5°F (3°C) above dew point
- Ambient temperature during application and curing should be between 32°F (0°C) and 104°F (40°C)
- Relative humidity during application should be above 0% and below 85%

INSTRUCTIONS FOR USE

- Mix with a pneumatic air mixing at moderate speeds to homogenize the container



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Application

- Area should be sheltered from airborne particulates and pollutants
- Provide shelter to prevent wind from affecting spray patterns

Material temperature

Material temperature during application should be between 50°F (10°C) and 90°F (32°C)

Air spray

- An agitated pressure pot is recommended
- Separate air and fluid regulators are essential
- Ensure there is a moisture and oil trap in the main air line

Recommended thinner

THINNER 21-06 (AMERCOAT 65)

Nozzle orifice

Approx. 0.079 – 0.102 in (2.0 – 2.6 mm)

Nozzle pressure

Atomizing pressure 35 - 45 p.s.i. (2.5 - 3.0 bar); Fluid pressure as required

Airless spray

- 33:1 pump or larger
- Hoses should normally be kept as short as possible

Recommended thinner

THINNER 21-06 (AMERCOAT 65)

Nozzle orifice

0.017 in (approx. 0.43 mm)

Brush/roller

- Spray application is recommended as the best method to obtain a closed film within the film thickness limits. Rolling may leave visible patterns in the film. A short nap, solvent resistant roller is required.
- Use a high quality natural bristle brush. Ensure brush is well loaded to avoid air entrainment. Brush application is limited to small touch up areas of a few square inches

Recommended thinner

AMERCOAT 65

Cleaning solvent

AMERCOAT 12 CLEANER or AMERCOAT 65 THINNER (xylene)



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ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (51 µm)				
Overcoating with...	Interval	50°F (10°C)	70°F (21°C)	90°F (32°C)
itself	Minimum	3 hours	2 hours	1.5 hours
	Maximum	Extended	Extended	Extended

Note: After high temperature service exposure, the film should be uniformly abraded prior to applying another coat.

Curing time for DFT up to 2.0 mils (51 µm)			
Substrate temperature	Dry to handle	High temperature service	Light impact/abrasion
50°F (10°C)	8 hours	7 hours	48 hours
70°F (21°C)	6 hours	10 hours	24 hours
90°F (32°C)	5 hours	13 hours	16 hours

Note: Product is not designed for heavy mechanical abuse. Care should be taken during shipping and handling. Make any necessary repairs prior to service. Coating film will become more durable after exposure to high temperatures

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 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

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, 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.

REFERENCES

- | | | |
|--------------------------------------|-------------------|------|
| • CONVERSION TABLES | INFORMATION SHEET | 1410 |
| • EXPLANATION TO PRODUCT DATA SHEETS | INFORMATION SHEET | 1411 |

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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Packaging: Available in 1 and 5 gallon containers

Product code	Description
SPEC3279	AMERCOAT 3279

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