

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

BASIC DATA AT 20°C (68°F)

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

TEMPERATURE RESISTANCE

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

Notes:

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



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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
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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)
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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
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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%
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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
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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

ADDITIONAL DATA

Overcoating interval for DFT up to 2.0 mils (50 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



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

SAFETY PRECAUTIONS

- 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
- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective & 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

- Information sheet | Explanation of product data sheets

WARRANTY

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AVAILABILITY OF PACKAGING

Depending on specific country of application the following versions are available:

Product	Color
SPEC3279	AMERCOAT 3279
