AMERON
INTERNATIONAL
*Performance Coatings & Finishes*

# 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 | $ft^2$/gal | $m^2$/L |
| 1 mil (25 microns) | 882 | 21.7 |
| 6 mils (150 microns) | 147 | 3.6 |
| VOC (EPA method 24) | lb/gal | g/L |
| Amercoat 3279 | 3.5 | 415 |
| **Temperature resistance,** dry | °F | °C |
| Aluminum | 1000 | 538 |
| Flash point (SETA) | °F | °C |
| Amercoat 3279 | 91 | 33 |
| Amercoat 12 | 2 | -17 |

### Application Data

| | | |
|---|---|---|
| Applied over | Prepared steel | |
| 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 | 95% 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. Ameron 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 Ameron 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.***

## Warranty

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to Ameron 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, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Ameron of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

**Ameron makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Ameron be liable for consequential or incidental damages.**

Any recommendation or suggestion relating to the use of the products made by Ameron, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.

## Limitation of Liability

Ameron's liability on any claim of any kind, including claims based upon Ameron's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim. **In no event shall Ameron be liable for consequential or incidental damages.**

ASTM F 718

SHIPBUILDERS AND MARINE
PAINTS AND COATINGS
PRODUCT / PROCEDURE DATA SHEET NO. 3279

I. GENERIC TYPE AND DESCRIPTION:
Specification Number (If Applicable): MIL–P–24555A Type II, Class 2
NSN 1 gallon unit 8010 Ameron 025
5 gallon unit 8010 Ameron 026

II. MANUFACTURERS DATA:
(a) MANUFACTURER: Ameron, PCD
(b) PRODUCT DESIGNATION: Formula 3279 High Heat Aluminum
(c) COLOR(S): Aluminum
(d) USES: High Temperature Atmospheric on Steel
(e) TECHNICAL SERVICE REPRESENTATIVE (Include Telephone No.): Ameron Tech. Service
(f) NOT RECOMMENDED FOR:

III. PROPERTIES:
(a) %VOLUME SOLIDS (ASTM D2697): 55.25
(b) FLASH POINT (SETA): 91°F
(c) WEIGHT PER GALLON (FTMS141a 4184.1): 9.09 ± .15 lbs
(d) SHELF LIFE: 1 year
(e) VISCOSITY (FTMS141a 4281): 400 – 900
(f) PACKAGING: 1 and 5 gallon units
(g) NUMBER OF COMPONENTS: 1
(h) GLOSS (ASTM D523):
( i) VOC: MIXED 413 g/L
( j) STORAGE REQUIREMENTS: TEMP. MIN. 40 °F MAX. 100 °F

SPECIAL SAFETY PRECAUTIONS:
See OSHA MSDS attached

IV. SURFACE PREPARATION MINIMUM REQUIREMENTS (USE SPECIFIC STANDARD NUMBERS):
(a) INITIAL – See specification
(b) TOUCH-UP– See specification
(c) PROFILE(INCLUDING METHOD USED) – See specification MIN. _____ MAX. _____
(d) SPECIAL INSTRUCTIONS –
(e) PRIMER REQUIREMENTS (IF APPLICABLE): See specification

V. MIXING PROCEDURE:
(a) MIXING RATIO BY WEIGHT – N/A single component
BY VOLUME –
(b) INDUCTION TIME – N/A single component
(c) RECOMMENDED SOLVENT - THINNING – Not required
CONFINED AREAS – See specification
NON-CONFINED AREAS – See specification
CLEAN UP – See specification
(d) THINNING REQUIREMENTS (RATIO) – N/A
(e) POT LIFE – N/A
_____ Hr(s) @ _____°F( _____°C)
_____ Hr(s) @ _____°F( _____°C)
_____ Hr(s) @ _____°F( _____°C)
(f) SPECIAL INSTRUCTIONS –N/A not applicable

VI. APPLICATION:
(a) ENVIRONMENTAL LIMITATIONS –
*TEMP. MIN. 32°F MAX. 120°F
*% RELATIVE HUMIDITY MIN. 0% MAX. 95%
(b) FILM THICKNESS (SSPC PA2-73T) – WET MIN. 4 WET MAX. 5
DRY MIN. 2 DRY MAX. 3
(c) DRY TIMES (ASTM D1650) – RECOAT MIN. 3 Hr(s) @ 50 °F ( _____°C) @ _____% R.H.
MIN. 2 Hr(s) @ 70 °F ( _____°C) @ _____% R.H.
MIN. 1.5 Hr(s) @ 90 °F ( _____°C) @ _____% R.H.
MAX. 48 Hr(s) @ 70 °F ( _____°C)
TO HANDLE MIN. 8 Hr(s) @ 50 °F ( _____°C) @ _____% R.H.
MIN. 6 Hr(s) @ 70 °F ( _____°C) @ _____% R.H.
MIN. 5 Hr(s) @ 90 °F ( _____°C) @ _____% R.H.
FOR IMMERSION MIN. N/A Hr(s) @ 50 °F ( _____°C)
MIN. _____ Hr(s) @ 70 °F ( _____°C)
MIN. _____ Hr(s) @ 90 °F ( _____°C)
MAX. N/A Hr(s) @ _____°F ( _____°C)
(d) EQUIPMENT REQUIREMENTS Preference/Suitable - Airless Spray
Conventional Spray
Brush
Roll
(e) SPECIAL INSTRUCTIONS –

*CAUTION SHOULD BE TAKEN THAT SURFACE TEMPERATURE IS AT LEAST 5 °F ABOVE DEW POINT.

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