



Performance Coatings & Finishes

# PSX<sup>®</sup> 1001

*Single pack acrylic polysiloxane*

## Product Data/ Application Instructions

- Single component
- Non-isocyanate
- High-gloss topcoat
- Excellent gloss retention
- Unlimited recoat window
- High solids, low VOC
- Ease of application, brush, roll and spray

### Typical Uses

PSX 1001 provides a polyurethane-like finish, in one component, without the isocyanate, as well as better weathering than a standard aliphatic polyurethane.

Used with Amercoat 1000 primer to give a high performance maintenance system with the ease of single pack application.

PSX 1001 is compatible with epoxy, alkyds and other types of primers, **it should not be used with Amercoat 385.**

### 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.

**Conventional spray** – Industrial equipment, such as DeVilbiss, MBC or JGA spray gun. Separate regulators for air and fluid pressure, mechanical pot agitator and a moisture and oil trap in the main air supply line are recommended.

**Airless spray** – Standard equipment such as Graco, DeVilbiss, Nordson, Spee-Flo or others having 28:1 or higher pump ratio and fluid tip with a 0.013- to 0.017-inch orifice.

**Brush** – Natural bristle. Maintain a wet edge.

**Roller** – Industrial roller. Level any air bubbles with bristle brush.

### Surface Preparation

Prior to coating, all surfaces must be undamaged, clean, dry and free of all contaminants, including salt deposits.

See specific primer.

### Application Procedure

1. Flush all equipment with Amercoat 911 or Amercoat 12 before use.
2. Mix to a uniform consistency.
3. If needed for workability, thin with Amercoat 911 up to ½ pint per gallon.
4. Apply a wet coat in even, parallel passes, overlap each pass 50 percent to avoid holidays, bare areas and pinholes. If required, follow with a cross spray at right angles to first pass.
5. Clean all equipment with Amercoat 911 or Amercoat 12 immediately after use.

## Physical Data

Finish  
Color

Gloss  
See Ameron standard Industrial and Marine color charts

*Yellow, red and orange colors will fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.*

Components 1  
Curing mechanism Chemical reaction, solvent evaporation  
Volume solids (calculated) 55 ± 3%  
Dry film thickness per coat 2 to 3 (50 to 75 microns)  
Coats 1 or 2

*Uniform appearance may require two coats over contrasting primer colors.*

	ft <sup>2</sup> /gal	m <sup>2</sup> /L
Theoretical coverage		
1 mil (25 microns)	882	21.7
2 mils (50 microns)	441	10.8

	lb/gal	g/L
VOC	3.2	384

	°F	°C
Flash point (SETA)		
PSX 1001	66	19
Amercoat 911	81	27
Amercoat 12	2	-17

## Application Data

Applied over  
Primered steel: Amercoat 180, 230, 235, 235ER, 370, 1000, or Amerlock<sup>®</sup> 400.

Surface preparation  
Method  
See specific primer.  
Environmental conditions  
Airless or conventional spray

	°F	°C
Temperature		
air	40 to 110	4 to 43
surface	40 to 120	4 to 43

Relative humidity 20% to 90%

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

	°F/°C			
Drying time (hours)	120/49	90/32	70/21	50/10
touch	½	1	2	3
through	3	8	12	24

	°F/°C			
Topcoat	120/49	90/32	70/21	50/10
minimum (hours)				
Amercoat 180	1	2	2 ½	4
Amercoat 370	¼	½	1	3
Amercoat 1000	1	2	2	4
Amerlock 400	3	7	14	28

	°F/°C			
Topcoat	120/49	90/32	70/21	50/10
maximum (days)				
Amercoat 180			None	
Amercoat 370	--	--	30	--
Amercoat 1000			None	
Amerlock 400	--	--	30	--

	°F/°C			
Recoat	120/49	90/32	70/21	50/10
minimum (hours)	½	2	4	12
maximum (hours)	None	None	None	None

Thinner  
Equipment cleaner  
Amercoat 911  
Amercoat 911 or Amercoat 12

Formerly Amercoat 3448

Temperature Resistance (Dry)	°F/°C	
continuous	200	93
intermittent	250	121

See temperature limits for primer or coating used as first coat.

## 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.**

**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 mist 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 interior 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 in California.***

## Shipping Data

Packaging	1 gal	5 gal
Shipping weight (approx)	lb	kg
1-gal can	12.6	5.7
5-gal can	62	28.2

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)  
1 years from date of manufacture.

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions. The product is photochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

## 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.**



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