



Performance Coatings & Finishes

PSX[®] 700

Engineered Siloxane[®] coating Patent Nos. 5,618,860 and 5,275,645

Application Instructions

Refer to the Product Data sheet for properties and uses.

Adhere to all application instructions, precautions, conditions, and limitations to obtain the maximum performance. For conditions outside the requirements or limitations described, contact your Ameron representative.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Refer to specifications for the specific primer being used. Prior to coating, primed surface must be clean, dry, undamaged and free of all contaminants including salt deposits. Round off all rough welds and remove all weld spatter.

Steel – Remove all loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required: SSPC-SP6 or 10. The choice of surface preparation will depend on the system selected and end-use service conditions.

Concrete – Acid etching (ASTM D4260) or abrasive blast (ASTM D4259) new concrete before priming.

Aluminum – Remove oil, grease or soap film with neutral detergent or emulsion cleaner, treat with Alodine[®] 1200, Alumiprep[®] or equivalent or blast lightly with fine abrasive.

Galvanizing – Remove oil or soap film with detergent or emulsion cleaner, then use zinc treatment such as Galvaprep[®] or equivalent or blast lightly with fine abrasive.

Aged coatings – Contact your Ameron representative. A test patch of PSX 700 over intact clean coating and observation for film defects over a period of time may be required, dependant upon the type of aged coating.

PSX 700 is compatible over Amercoat 450HS and Amershield.

Repair – Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating. Thoroughly remove dust or abrasive residue before touch up.

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 with a 30 to 1 pump ratio or larger with a 0.015- to 0.021-in. (0.38 to 0.53 mm) fluid tip.

Conventional spray – Industrial equipment such as DeVilbiss MBC or JGA spray gun with 78 or 765 air cap and “E” fluid tip, or Binks No. 18 or 62 gun with a 66 x 63 PB nozzle set up. Separate air and fluid pressure regulators, and a moisture and oil trap in the main air supply line are recommended.

Power mixer – Jiffy Mixer powered by an air or an explosion-proof electric motor.

Brush – Natural bristle. Maintain wet edge.

Roller – Use industrial roller. Level any air bubbles with bristle brush.

Environmental Conditions

Temperature	°F	°C
air	40 to 120	4 to 49
surface	40 to 120	4 to 49
Relative humidity	40% minimum	

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation during application and initial dry through. Relative humidity lower than 40% will extend dry times.

Heat curing

Allow 700 to dry to touch before exposing to curing temperatures above 140°F.

Application Procedure

1. Flush equipment with thinner or Amercoat[®] 12 before use.
2. Mix to a uniform consistency.
3. Add PSX 700 cure to 700 resin. Mix thoroughly until uniformly blended.

Pot life (hours)*	°F/°C		
	90/32	70/21	50/10
700	1 ½	4	6 ½

4. If needed for workability, thin** with Amercoat 911 up to 1 pint per gallon PSX 700.
5. 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.

Drying time (ASTM D1640) (hours) @ 40% R.H. or above
°F/°C

	90/32	70/21	50/10	32/0
touch	1	2	4 ½	9
through	3	4 ½	8 ½	24

Recoat/topcoat time (hours) @ 40% R.H. or above
°F/°C

	90/32	70/21	50/10	32/0
minimum	2	3	7	18
maximum***	None			

6. Brush and/or roll applications will require 2 coats to achieve a 7 mil DFT. There will be some surface texture, which is typical for brush and roll applications.
7. When applying PSX 700 directly over Dimetecote[®] or Amercoat 68HS see special thinning instructions.
8. Clean all equipment with thinner or Amercoat 12 cleaner immediately after use.

*Thinning material with ½ pt/gal after 3 hours will extend pot life to 5 hours at 70°F.

**See special thinning for application over Dimetecote and Amercoat 68HS primers.

***See surface preparation for aged coatings.

Thinning for Application over Dimetcote

Thin PSX 700 with Amercoat 101 up to 1 pint per gallon to assist in film thickness control and to minimize bubbling. This will depend on the age of the coating, surface roughness and conditions during curing. Based on conditions an interval between the mist-coat and full-coat may assist in the application.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storing, 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

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Ameron U.S.A. • 13010 Morris Rd, Suite 400, Alpharetta, GA 30004 • (678) 393-0653
Ameron B.V. • J.F. Kennedylaan 7, 4190 CA Geldermalsen, The Netherlands • (31) 345-587-587