



PSX[®] 700

PSX[®] 700 is a patented epoxy siloxane topcoat that combines the corrosion resistance of an epoxy with topcoat characteristics of polyurethane. With over a decade of proven performance, PSX 700 continues to be specified and used in some of the world’s most demanding environments.

PSX[®] 700 is an isocyanate-free coating formulated with very high solids and extremely low volatile organic compounds. PSX[®] 700 meets or exceeds today's stringent environmental, health and safety requirements - without compromising performance.

PSX[®] 700 provides Class A fire resistance, with low fire and smoke generation ratings to 500 microns DFT (ASTM E-84).

Key Features and Benefits:

- Outstanding chemical resistance that exceeds standard epoxy coatings
- Abrasion resistance better than a flexible aliphatic polyurethane and far superior to a standard epoxy coating
- Adhesive strength of 2700 psi (on steel, using ASTM D4541) is more than double the 500-1000 psi of a standard epoxy coating
- Gloss and color retention surpasses that of an aliphatic polyurethane
- High solids and low VOC
- Lower initial application costs when you apply the two coat system versus the conventional two-coat system
- Resists high humidity and moisture

Approvals:

Customer Name	Specification Number	Status
NFPA	Class A	Approved
USDA	Incidental Food Contact	Approved
NAVSEA	MIL-PRF-24635D Class V	Approved

Commercial Uses:

For exterior use above the water line including superstructures, where a high performance non-isocyanate coating is desired.

Physical Properties:

Property	Method	Result
Density	ASTM D3574	12.19 lb/gal; 1460.7 g/L
VOC (Blended 1/1 by volume)	Method 24, Section 11.2	0.9 lb/gal; 100 g/L
Specific Gravity	ASTM D3574	1.463
Component		2
Shelf Life @ ambient temps		1 year
Flash Point	Pensky-Maartens Closed Cup	207° F
Percent Solids	ASTM D2697	90% +/- 3%
DFT per coat		3-7 mils (75-175 microns)
Recommended number of coats		1 or 2
Abrasion Resistance	ASTM D4060	Weight loss – 53 mg
Adhesion, elcometer	ASTM D4541	2700 psi
Elongation	ASTM D522	14%
Salt Spray	ASTM B117 (5500 hours)	Face corrosion blistering - None
Humidity	ASTM D2247 (5500 hours)	Face corrosion blistering – None
Gloss Retention	ASTM G53 (QUV-B bulb)	> than 50% at 26 weeks

Typical Application Properties

Apply over	Prepared and primed steel or aluminum
Surface preparation	Prepare surface in accordance with the instructions for the anticorrosive coating used
Application method	Airless and Conventional Spray; Brush; Roller
Mix Ratio	4 to 1
Pot Life	4 hours @ 70°F
Air & Surface Temperature	40° – 120° F*
Air Humidity	40 – 80 % RH
Dry Time	Touch: 3 hours @ 70°F; Recoat: 4.5 hours @ 70°F; Handle: 6 hours @ 70°F

* Surface temperature must be at least 5°F above dew point to prevent condensation

Contact Information:

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