PSX Advantage: PSX 700 is a patented engineered siloxane coating which embodies the properties of both a high performance epoxy and a polyurethane in one coat. This multi-purpose coating offers “breakthrough” weather resistance and corrosion control.

- Unique, high-gloss, super durable coating
- Can be applied directly over 2-pack epoxy zinc rich primers
- Cures at room temperature
- Gloss and appearance retention exceeding the best polyurethane
- Significantly lower applied costs
- Excellent to acids and corrosion.
- High solids, low VOC
- Resists high humidity and moisture
- Applied by brush, roller or spray
- Outstanding resistance to chemical splash and spill
- OEM version available for lower build applications which require improved levelling and flow.

Typical Uses

PSX 700 offers significant advantages in that the system can normally be applied in two coats compared to the traditional systems using epoxies and urethanes. It provides very effective long-term corrosion control and weatherability.

- Structural steel - bridges, marine
- External tanks and pipe work
- Mineral processing, smelters and refineries
- Industrial plants – power, pulp and paper, wastewater treatment, chemical and petrochemical
- Concrete walls and floors
- Transportation – rail car exterior, vehicle equipment, buses, trucks
- Marine – decks, boottops, topside and superstructures on ships, barges and offshore platforms
- Indoor aquatic centres and sports stadiums
- Commercial buildings and shopping centres
- Airports and hospitals
- Coastal developments
- Offshore oil, LNG platforms, FPSO’s and exterior of tankage

Physical Data

<table>
<thead>
<tr>
<th>Finish</th>
<th>Gloss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour</td>
<td>Large range of colours available</td>
</tr>
<tr>
<td>Components</td>
<td>2</td>
</tr>
<tr>
<td>Curing mechanism</td>
<td>Chemical reaction</td>
</tr>
<tr>
<td>Volume solids (White)</td>
<td>90 ± 3%</td>
</tr>
<tr>
<td>Volume solids (White) OEM</td>
<td>90 ± 3%</td>
</tr>
<tr>
<td>Volume solids (Metallic OEM)</td>
<td>73 ± 3%</td>
</tr>
<tr>
<td>Coats</td>
<td>1 or 2</td>
</tr>
<tr>
<td>Dry film thickness per coat</td>
<td>75-150 µm (85-165 µm wet)</td>
</tr>
<tr>
<td>OEM dry film thickness</td>
<td>50-75µm (55-85 µm wet)</td>
</tr>
<tr>
<td>Note: Total DFT of PSX 700 not to exceed 250µm</td>
<td></td>
</tr>
</tbody>
</table>

Theoretical Coverage

- at 125 microns 7.1 m²/L
- OEM colours (75 microns) 12 m²/L
- OEM Metallic (75 microns) 9..7 m²/L

Temperature resistance, dry °C
- Continuous 93
- Intermittent 121

Qualifications

- NFPA – Class A
- USDA – Incidental food contact
- NORSOK M-CR-501 (coating system 1)
- ISO 12944 (Class C5M)
- Shell Specification ES/011 Vol. 2 Rev. 7
- ACQPA France
- “O” Class fire rating (UK Building Regulations) based on testing according to BS476 Parts 6 and 7 (fire propagation and flame spread).

Application Data

Apply over
- Correctly prepared primed steel, galvanising or aluminium.

Surface preparation
- Refer application instructions for the specific primer used. Be sure primer is clean and dry when PSX700 is applied.

Method
- Airless or conventional spray, brush or roller

Mixing ratio (by volume)
- 4 parts A to 1 part B

Pot Life (Hours)
- 700 / mixed paint 32°C 21°C 10°C
- 1 ½ 4 6 ½
**Typical Properties PSX 700**

**Physical**
- Abrasion (ASTM D4060) 1kg load/1000 cycles weight loss
  - CS-17 wheel 53 mg
- Adhesion, Elcometer (ASTM D4541) 2700 psi
- Elongation (ASTM D522) 14%

**Performance**
- 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 Greater than 50% gloss retention at 26 weeks

**PSX 700 Chemical Resistance Guide**

<table>
<thead>
<tr>
<th>Environment</th>
<th>Splash</th>
<th>Fumes &amp; Spillage</th>
<th>Weather</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acidic</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Alkaline</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Salt solutions</td>
<td>Acidic</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Neutral</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Alkaline</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Fresh water</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Solvents</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
<tr>
<td>Petroleum products</td>
<td>E</td>
<td>E</td>
<td>E</td>
</tr>
</tbody>
</table>

F= Fair  G=Good  E=Excellent

*This table is only a guide to show typical resistances of PSX 700. For specific recommendations, contact your PPG representative for your particular corrosion protection needs.*

**Systems Using PSX 700**

<table>
<thead>
<tr>
<th>Steel (blasted) Sa 2 ½+</th>
<th>DFT</th>
<th>PSX 700 DFT</th>
</tr>
</thead>
<tbody>
<tr>
<td>D9 SB Zinc Silicate</td>
<td>65-75</td>
<td>75-125</td>
</tr>
<tr>
<td>Amercoat 68HS</td>
<td>70-85</td>
<td>75-125</td>
</tr>
<tr>
<td>Amercoat 471</td>
<td>70-85</td>
<td>75-125</td>
</tr>
<tr>
<td>Concrete **</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amercoat 385</td>
<td>100-125</td>
<td>75-125</td>
</tr>
<tr>
<td>Amerlock 2</td>
<td>100-125</td>
<td>75-125</td>
</tr>
<tr>
<td>Aluminium – sweep blast</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Amercoat 385</td>
<td>100-125</td>
<td>75-125</td>
</tr>
<tr>
<td>GRP (degrease &amp; sand)</td>
<td>PSX 700 OEM</td>
<td></td>
</tr>
<tr>
<td>Amercoat 476</td>
<td>75-100</td>
<td>50-75</td>
</tr>
</tbody>
</table>

* Tie coat recommended
** as per Application Instructions

**Environment Conditions**

**Temperature**
- Air 4 to 35°C
- Surface 4 to 35°C

**Relative humidity** 40% minimum

*Surface temperatures must be at least 3°C above dew point to prevent condensation during application and initial dry through. Low temperatures and relative humidity below 40% will extend cure time. Refer to the application guide for additional information.*

**Heat Curing**

Allow PSX700 to dry to touch before exposing to curing temperatures above 60°C.

**Drying Time** (ASTM D1640) (Hours) @ 40% R.H. or above
- 32°C 21°C 10°C
- Touch (700) 1 2 4 ½
- Through (700) 3 4 ½ 8 ½

**Recoat Time** (hours) @ 40% R.H. or above
- 32°C 21°C 10°C
- Minimum 2 3 7
- Maximum None

**Equipment cleaner** Thinner 304

**Shelf life** when stored indoors at 4 to 38°C
- Part A & B 2 years from shipment date

*Numerical values are subject to normal manufacturing tolerances, colours and testing variances. Allow for application losses and surface irregularities.*

**Safety Precautions**

Improper use and handling of this product can be hazardous to health.

Read each component’s material safety data sheet before use. Mixed material has hazards of each component.

This product is only for industrial use by experienced applicators.

Keep away from children. When mixing or applying wear goggles and gloves and ensure good ventilation. When spraying, wear appropriate protective clothing and air supply. If splashed on skin, wash with soap and water. Adequate forced ventilation must be provided in confined spaces.

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