PSX® 700

DESCRIPTION
Two-component, engineered siloxane coating

PRINCIPAL CHARACTERISTICS
- Unique, high gloss, engineered siloxane
- Can be applied directly over inorganic zinc
- Excellent color and gloss retention
- High solids, VOC compliant
- Applied by brush, roller or spray, without thinning
- Good resistance to splash- and spillage of chemicals

COLOR AND GLOSS LEVEL
- Full color range
- Gloss

BASIC DATA AT 20°C (68°F)

<table>
<thead>
<tr>
<th>Data for mixed product</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of components</td>
<td>Two</td>
</tr>
<tr>
<td>Mass density</td>
<td>1.4 kg/l (11.3 lb/US gal)</td>
</tr>
<tr>
<td>Volume solids</td>
<td>90 ± 2%</td>
</tr>
<tr>
<td>VOC (Supplied)</td>
<td>Directive 1999/13/EC, SED: max. 119.0 g/kg max. 164.0 g/l (approx. 1.4 lb/US gal) EPA Method 24: 0.7 lb/US gal (84.0 g/l)</td>
</tr>
<tr>
<td>Recommended dry film thickness</td>
<td>75 - 175 μm (3.0 - 7.0 mils) per coat</td>
</tr>
<tr>
<td>Theoretical spreading rate</td>
<td>7.2 m²/l for 125 μm (289 ft²/US gal for 5.0 mils)</td>
</tr>
<tr>
<td>Dry to touch</td>
<td>2 hours</td>
</tr>
<tr>
<td>Overcoating Interval</td>
<td>Minimum: 3 hours Maximum: Unlimited</td>
</tr>
<tr>
<td>Shelf life</td>
<td>Base: at least 36 months when stored cool and dry Hardener: at least 24 months when stored cool and dry</td>
</tr>
</tbody>
</table>

Notes:
- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions
• Compatible previous coat must be dry and free from any contamination
• Aged suitable coating must be dry and free from any contamination
• Aged coatings may require abrading prior to applying this product
• Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating
• For touch-up and repair; apply additional material after removing dirt, contaminants and old loose coatings or antifoulings

Substrate temperature
• Substrate temperature during application and curing should be above 0°C (32°F)
• Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
• Relative humidity during application and curing should be above 40% to obtain optimal curing properties

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 80:20 (4:1)
• Use a power mixer powered by an air- or explosion-proof electric motor

Induction time
None

Pot life
4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

Airless spray

Recommended thinner
THINNER 60-12 or THINNER 21-06

Volume of thinner
0 - 10%, depending on required thickness and application conditions

Brush/roller
• The recommended DFT cannot be reached in one coat
• Natural bristle
• Maintain a wet edge
• Level any air bubbles with a bristle brush
Cleaning solvent
THINNER 90-58

### ADDITIONAL DATA

#### Spreading rate and film thickness

<table>
<thead>
<tr>
<th>DFT</th>
<th>Theoretical spreading rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>75 µm (3.0 mils)</td>
<td>12.0 m²/l (481 ft²/US gal)</td>
</tr>
<tr>
<td>125 µm (5.0 mils)</td>
<td>7.2 m²/l (289 ft²/US gal)</td>
</tr>
<tr>
<td>175 µm (7.0 mils)</td>
<td>5.1 m²/l (206 ft²/US gal)</td>
</tr>
</tbody>
</table>

#### Overcoating interval for DFT up to 175 µm (7.0 mils) at RH 40% or above

<table>
<thead>
<tr>
<th>Overcoating with...</th>
<th>Interval</th>
<th>5°C (41°F)</th>
<th>10°C (50°F)</th>
<th>20°C (68°F)</th>
<th>30°C (86°F)</th>
</tr>
</thead>
<tbody>
<tr>
<td>itself</td>
<td>Minimum</td>
<td>12 hours</td>
<td>7 hours</td>
<td>3 hours</td>
<td>2 hours</td>
</tr>
<tr>
<td></td>
<td>Maximum</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

Notes:
- Surface should be dry and free from any contamination before recoating
- Please contact your PPG representative for more details

#### Curing time for DFT up to 175 µm (7.0 mils)

<table>
<thead>
<tr>
<th>Substrate temperature</th>
<th>Dry to touch</th>
<th>Dry to handle</th>
</tr>
</thead>
<tbody>
<tr>
<td>5°C (41°F)</td>
<td>7 hours</td>
<td>16 hours</td>
</tr>
<tr>
<td>10°C (50°F)</td>
<td>4.5 hours</td>
<td>8.5 hours</td>
</tr>
<tr>
<td>20°C (68°F)</td>
<td>2 hours</td>
<td>4.5 hours</td>
</tr>
<tr>
<td>30°C (86°F)</td>
<td>1 hour</td>
<td>3 hours</td>
</tr>
</tbody>
</table>

#### Pot life (at application viscosity)

<table>
<thead>
<tr>
<th>Mixed product temperature</th>
<th>Pot life</th>
</tr>
</thead>
<tbody>
<tr>
<td>10°C (50°F)</td>
<td>6.5 hours</td>
</tr>
<tr>
<td>20°C (68°F)</td>
<td>4 hours</td>
</tr>
<tr>
<td>30°C (86°F)</td>
<td>1.5 hours</td>
</tr>
</tbody>
</table>

### SAFETY PRECAUTIONS

- This is a solvent-borne paint and care should be taken to avoid inhalation of spray mist or vapor, as well as contact between the wet paint and exposed skin or eyes
- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, slight modification of the product is sometimes necessary to comply with local or national rules/circumstances. Under these circumstances an alternative product data sheet is used.

REFERENCES

- **CONVERSION TABLES**
  INFORMATION SHEET 1410
- **EXPLANATION TO PRODUCT DATA SHEETS**
  INFORMATION SHEET 1411
- **SAFETY INDICATIONS**
  INFORMATION SHEET 1430
- **SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD**
  INFORMATION SHEET 1431
- **CLEANING OF STEEL AND REMOVAL OF RUST**
  INFORMATION SHEET 1490
- **SPECIFICATION FOR MINERAL ABRASIVES**
  INFORMATION SHEET 1491
- **SURFACE PREPARATION OF CONCRETE (FLOORS)**
  INFORMATION SHEET 1496
- **RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE**
  INFORMATION SHEET 1650
- **PSX® 700 SILOXANE QUALITY ASPECT APPLICTION**
  INFORMATION SHEET 1721

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