# PPG PSX® 500

## DESCRIPTION

Two-component, engineered siloxane coating

## PRINCIPAL CHARACTERISTICS

- Unique, high gloss, isocyanate free solution
- Tin free acrylic siloxane
- Excellent color and gloss retention
- Applied by brush, roller or spray, without thinning
- Good resistance to splash and spillage of chemicals
- Can be applied direct to metal

## COLOR AND GLOSS LEVEL

- Full color range
- High gloss

## BASIC DATA AT 20°C (68°F)

| Data for mixed product | |
|---|---|
| **Number of components** | Two |
| **Mass density** | 1.4 kg/l (11.3 lb/US gal) |
| **Volume solids** | 76 ± 2% |
| **VOC (Supplied)** | Directive 2010/75/EU, SED: max. 142.0 g/kg<br>max. 195.0 g/l (approx. 1.6 lb/US gal) |
| **Recommended dry film thickness** | 50 - 75 µm (2.0 - 3.0 mils) per coat |
| **Theoretical spreading rate** | 15.2 $m^2$/l for 50 µm (610 $ft^2$/US gal for 2.0 mils) |
| **Dry to touch** | 2 hours |
| **Overcoating Interval** | Minimum: 3 hours<br>Maximum: Unlimited |
| **Shelf life** | Base: at least 36 months when stored cool and dry<br>Hardener: at least 24 months when stored cool and dry |

Notes:

- See ADDITIONAL DATA – Spreading rate and film thickness
- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- Coating performance is proportional to the degree of surface preparation

# PPG PSX® 500

**Substrate conditions**

- Steel; pretreated minimum ISO Sa2 (SSPC SP6) or higher with blasting profile 25 – 75 µm (1.0 – 3.0 mils)
- For touch-up and repair, power tool cleaning in accordance with SSPC SP11 is acceptable
- Compatible previous coat must be dry and free from any contamination
- Aged suitable coating must be dry and free from any contamination. It may require abrading prior to applying this product.
- Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating

**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 (37°F) above dew point
- Relative humidity during application and curing should be between 40% and 85%

## INSTRUCTIONS FOR USE

**Mixing ratio by volume: base to hardener 4:1**

- Use a power mixer powered by an air or explosion-proof electric motor

**Pot life**

5 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA – Pot life

**Air spray**

**Recommended thinner**

THINNER 21-06

**Volume of thinner**

0 - 5%, depending on required thickness and application conditions

**Nozzle orifice**

1.5 – 2.0 mm (approx. 0.060 – 0.079 in)

**Nozzle pressure**

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

# PPG PSX® 500

**Airless spray**

**Recommended thinner**

THINNER 21-06

**Volume of thinner**

0 - 2%, depending on required thickness and application conditions

**Nozzle orifice**

Approx. 0.38 – 0.48 mm (0.015 – 0.019 in)

**Nozzle pressure**

20.0 MPa (approx. 200 bar; 2901 p.s.i.)

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**Brush/roller**

**Recommended thinner**

THINNER 21-06

**Volume of thinner**

0 – 1%

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**Cleaning solvent**

- THINNER 90-53

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## ADDITIONAL DATA

| Spreading rate and film thickness | |
|---|---|
| **DFT** | **Theoretical spreading rate** |
| 50 µm (2.0 mils) | 15.2 $m^2/l$ (610 $ft^2$/US gal) |
| 75 µm (3.0 mils) | 10.1 $m^2/l$ (406 $ft^2$/US gal) |

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# PPG PSX® 500

| Overcoating interval for DFT up to 50 µm (2.0 mils) at RH 40% or above | | | | | | |
|---|---|---|---|---|---|---|
| **Overcoating with...** | **Interval** | **5°C (41°F)** | **10°C (50°F)** | **20°C (68°F)** | **30°C (86°F)** | **40°C (104°F)** |
| itself | Minimum | 20 hours | 9 hours | 3 hours | 2 hours | 1 hours |
| | Maximum | Unlimited | Unlimited | Unlimited | Unlimited | Unlimited |

Note:

- Surface should be dry and free from any contamination

| Curing time for DFT up to 50 µm (2.0 mils) | | |
|---|---|---|
| **Substrate temperature** | **Dry to touch** | **Dry to handle** |
| 5°C (41°F) | 14 hours | 30 hours |
| 10°C (50°F) | 8 hours | 20 hours |
| 20°C (68°F) | 2 hours | 5 hours |
| 30°C (86°F) | 1.5 hours | 3.5 hours |
| 40°C (104°F) | 1 hour | 3 hours |

Note:

- Adequate ventilation must be maintained during application and curing

| Pot life (at application viscosity) | |
|---|---|
| **Mixed product temperature** | **Pot life** |
| 10°C (50°F) | 8 hours |
| 20°C (68°F) | 5 hours |
| 30°C (86°F) | 2 hours |
| 40°C (104°F) | 1 hour |

## 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
- See Safety Data Sheet and product label for complete safety and precaution requirements

## WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective & 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.

# PPG PSX® 500

## REFERENCES

- Information sheet | Explanation of product data sheets

## WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG 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 of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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