

# PPG PSX® 700 A CLEAR COAT

## DESCRIPTION

Two-component, engineered polysiloxane clearcoat

## PRINCIPAL CHARACTERISTICS

- Universal clear finish compatible with primed steel, clean metals and concrete
- High durability in challenging environments
- Resists dirt pickup, easily cleaned
- Resistant to graffiti removal solvents
- High solids, low VOC
- Isocyanate free

## COLOR AND GLOSS LEVEL

- Clear
- Gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product	
<b>Number of components</b>	Two
<b>Mass density</b>	1.1 kg/l (9.2 lb/US gal)
<b>Volume solids</b>	78 ± 2%
<b>VOC (Supplied)</b>	Directive 2010/75/EU, SED: max. 200.0 g/kg max. 222.0 g/l (approx. 1.9 lb/gal) (aluminum)
<b>Recommended dry film thickness</b>	20 - 25 µm (0.8 - 1.0 mils) per coat
<b>Theoretical spreading rate</b>	39.0 m²/l for 20 µm (1564 ft²/US gal for 0.8 mils) 31.2 m²/l for 25 µm (1251 ft²/US gal for 1.0 mils)
<b>Dry to handle</b>	5 hours
<b>Overcoating Interval</b>	Minimum: 4 hours Maximum: 30 days
<b>Full cure after</b>	7 days
<b>Shelf life</b>	Base: at least 12 months when stored cool and dry Hardener: at least 24 months when stored cool and dry

Notes:

- See ADDITIONAL DATA – Overcoating intervals
- See ADDITIONAL DATA – Curing time

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## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### Substrate conditions

- Existing sound coating systems; sufficiently roughened, dry and cleaned
- Surface must be dry and free from any contamination

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### Concrete

- Dried for at least 28 days in good ventilation conditions
- Moisture content should not exceed 4.5%
- Concrete must be sound, dry, free from laitance and any contamination
- Rough surface; eventually abraded by power tool or diamond abrading tool

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### Non-ferrous metals and stainless steel

- Surface must be free from grease, salts and any contamination
- Surface should be sufficiently roughened (e.g. sandpapering, sweep blasting)

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### Substrate temperature and application conditions

- Substrate temperature during application and curing should be between 5°C (41°F) and 50°C (122°F)
- Substrate temperature during application and curing should be at least 3°C (37°F) above dew point
- Ambient temperature during application and curing should be between 5°C (41°F) and 50°C (122°F)
- Relative humidity during application and curing should be between 50% and 85%

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## SYSTEM SPECIFICATION

- One or two coats of 20 - 25 µm (0.8 - 1.0 mils)

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## INSTRUCTIONS FOR USE

### Mixing ratio by volume: base to hardener 5:1

- The temperature of the mixed base and hardener should be above 10°C (50°F), otherwise extra thinner may be required to obtain application viscosity
- The paint should be stirred well before use, preferably by means of a mechanical mixer, to ensure homogeneity
- Add hardener to base and continue stirring until homogeneous
- If required, thinner should be added after mixing the components
- Adding too much thinner results in reduced sag resistance and slower cure

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## Pot life

4 hours at 20°C (68°F)

Note:

- See ADDITIONAL DATA – Pot life

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## Air spray

### **Recommended thinner**

THINNER 21-06 (AMERCOAT 65)

### **Volume of thinner**

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

### **Nozzle orifice**

1.0 - 1.5 mm (approx. 0.040 - 0.060 in)

### **Nozzle pressure**

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

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## Airless spray

### **Recommended thinner**

THINNER 21-06 (AMERCOAT 65)

### **Volume of thinner**

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

### **Nozzle orifice**

Approx. 0.38 - 0.43 mm (0.015 - 0.017 in)

### **Nozzle pressure**

15.0 - 18.0 MPa (approx. 150 - 180 bar; 2176 - 2611 p.s.i.)

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## Brush/roller

### **Recommended thinner**

THINNER 21-06 (AMERCOAT 65)

### **Volume of thinner**

0 - 5%

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## Cleaning solvent

- THINNER 90-53 or THINNER 90-58 (AMERCOAT 12)

## ADDITIONAL DATA

Overcoating interval for DFT up to 25 µm (1.0 mils)					
Overcoating with...	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	12 hours	8 hours	4 hours	2 hours
	Maximum	30 days	30 days	30 days	30 days

Note:

- Surface should be dry and free from any contamination before recoating

Curing time for DFT up to 25 µm (1.0 mils)		
Substrate temperature	Dry to handle	Full cure
5°C (41°F)	16 hours	16 days
10°C (50°F)	9 hours	10 days
20°C (68°F)	5 hours	7 days
30°C (86°F)	3 hours	5 days

Notes:

- Adequate ventilation must be maintained during application and curing
- Relative humidity lower than 40% will extend the drying times

Pot life (at application viscosity)	
Mixed product temperature	Pot life
10°C (50°F)	6 hours
20°C (68°F)	4 hours
30°C (86°F)	3 hours
40°C (104°F)	2 hours

## SAFETY PRECAUTIONS

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

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## 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.

## REFERENCES

- Information sheet | Explanation of product data sheets

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