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	
Number of components	Two
Mass density	1.1 kg/l (9.2 lb/US gal)
Volume solids	78 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 200.0 g/kg max. 222.0 g/l (approx. 1.9 lb/gal) (aluminum)
Recommended dry film thickness	20 - 25 µm (0.8 - 1.0 mils) per coat
Theoretical spreading rate	39.0 m^2/l for 20 µm (1564 ft^2/US gal for 0.8 mils) 31.2 m^2/l for 25 µm (1251 ft^2/US gal for 1.0 mils)
Dry to handle	5 hours
Overcoating Interval	Minimum: 4 hours Maximum: 30 days
Full cure after	7 days
Shelf life	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

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

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)

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 (5°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%

SYSTEM SPECIFICATION

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

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

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.)

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.)

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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