November 22, 2023 (Revision of September 23, 2022)

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
- Resists graffiti
- High solids, low VOC
- Isocyanate free

COLOR AND GLOSS LEVEL

- Clear
- Gloss

BASIC DATA AT 20°C (68°F)

Data for 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	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 condition

- 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

- Surface temperature during application 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 83:17 (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

Induction time

None

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.)

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%

Cleaning solvent
THINNER 90-53 or THINNER 90-58

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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
- Since improper use and handling can be hazardous to health and cause of fire or explosion, safety precautions included with Product Data/Application Instruction and Material Safety Data Sheet must be observed during all storage, handling, use and drying periods

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.

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REFERENCES

- EXPLANATION TO PRODUCT DATA SHEETS — INFORMATION SHEET 1411

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