DESCRIPTION

Two-component, high-build zinc phosphate polyurethane primer/finish

PRINCIPAL CHARACTERISTICS

- · Specially designed for in-shop application
- Fast-curing
- Easy application by airless spray
- Unlimited recoatable
- · Good adhesion to steel and galvanized steel
- Cures at temperatures down to -5°C (23°F)
- Non-chalking, non-yellowing

COLOR AND GLOSS LEVEL

- A wide range of colors is available through PPG colornet tinting system
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.3 kg/l (10.8 lb/US gal)
Volume solids	54 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 275.0 g/kg max. 395.0 g/l (approx. 3.3 lb/US gal)
Recommended dry film thickness	80 - 120 μm (3.1 - 4.7 mils) depending on system
Theoretical spreading rate	6.8 m²/l for 80 μm (279 ft²/US gal for 3.1 mils) 4.5 m²/l for 120 μm (184 ft²/US gal for 4.7 mils)
Dry to touch	1 hour
Overcoating Interval	Minimum: 4 hours Maximum: Unlimited
Full cure after	4 days
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

Notes:

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



RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

• Steel; blast cleaned to ISO-Sa2½, blasting profile 40 – 70 μ m (1.6 – 2.8 mils)

Galvanized steel

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

Substrate temperature

- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free from ice and dry
- Relative humidity during application and curing should not exceed 85%

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 88:12

- 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
- Adding too much thinner results in reduced sag resistance and slower cure
- Thinner should be added after mixing the components

Induction time

None

Pot life 2.5 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life



Air spray

Recommended thinner THINNER 21-06

Volume of thinner 5 - 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

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

Nozzle orifice Approx. 0.46 mm (0.018 in)

Nozzle pressure 15.0 MPa (approx. 150 bar; 2176 p.s.i.)

Brush/roller

Recommended thinner THINNER 21-06

Volume of thinner 0-5%

Cleaning solvent THINNER 90-53



ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
80 µm (3.1 mils)	6.8 m²/l (279 ft²/US gal)	
120 µm (4.7 mils)	4.5 m²/l (184 ft²/US gal)	

Overcoating interval for DFT up to 120 μm (4.7 mils)						
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself and two-component polyurethane finishes	Minimum	24 hours	16 hours	6 hours	4 hours	2 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 120 µm (4.7 mils)			
Substrate temperature	Dry to handle	Full cure	
-5°C (23°F)	24 hours	15 days	
0°C (32°F)	16 hours	11 days	
10°C (50°F)	4 hours	5 days	
20°C (68°F)	3 hours	4 days	
30°C (86°F)	2 hours	3 days	

Notes:

- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)
- Premature exposure to early condensation and rain may cause color and gloss change

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	4 hours	
20°C (68°F)	2.5 hours	
30°C (86°F)	1.5 hours	

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- 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



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
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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