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NORTH • SOUTH EAST • MIDLANDS • NORTH WEST • HULL • SCOTLAND

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
- · Good color and gloss retention
- · Good adhesion to steel and galvanized steel
- Unlimited recoatable
- Cures at temperatures down to -5°C (23°F)

COLOR AND GLOSS LEVEL

- · A wide range of colors is available through PPG colornet tinting system
- · Semi-gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product (white)				
Number of components	Two			
Mass density	1.4 kg/l (11.7 lb/US gal)			
Volume solids	55 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 270.0 g/kg max. 383.0 g/l (approx. 3.2 lb/US gal)			
Recommended dry film thickness	80 - 120 μm (3.1 - 4.7 mils) depending on system			
Theoretical spreading rate	6.9 m^2 /l for $80 \mu \text{m}$ (285 ft^2 /US gal for 3.1 mils) 4.6 m^2 /l for $120 \mu \text{m}$ (188 ft^2 /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 36 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

Steel; blast cleaned to ISO-Sa2½, blasting profile 40 – 70 μm (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 and application conditions

- 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

5 hours at 20°C (68°F)

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.)

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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)	6.9 m²/l (285 ft²/US gal)	
120 µm (4.7 mils)	4.6 m²/l (188 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	Minimum	24 hours	16 hours	6 hours	4 hours	2 hours
polyurethane finishes	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited

Note: Surface should be dry and free from any contamination

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Curing time for DFT up to 120 µm (4.7 mils)			
Substrate temperature	Dry to touch	Dry to handle	Full cure
-5°C (23°F)	8 hours	24 hours	15 days
0°C (32°F)	5 hours	16 hours	11 days
5°C (41°F)	2.5 hours	9 hours	7 days
10°C (50°F)	2 hours	4 hours	5 days
20°C (68°F)	1 hour	3 hours	4 days
30°C (86°F)	45 minutes	2 hours	3 days

Notes:

- Adequate ventilation must be maintained during application and curing
- 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)	7 hours	
20°C (68°F)	5 hours	
30°C (86°F)	2 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
- · Contains a toxic polyisocyanate curing agent

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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