#### **DESCRIPTION**

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

#### **PRINCIPAL CHARACTERISTICS**

- Fast curing
- Specially designed for in-shop application
- · Easy application by airless spray
- Unlimited recoatable
- · Good adhesion to steel and galvanized steel
- · Good resistance to atmospheric exposure
- · Good color and gloss retention
- Cures down to -5°C (23°F)
- Drying and curing times can be reduced significantly using PPG 866M ACCELERATOR

#### **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		
Number of components	Two	
Mass density	1.5 kg/l (12.5 lb/US gal)	
Volume solids	67 ± 2%	
VOC (Supplied)	Directive 2010/75/EU, SED: max. 233.0 g/kg max. 349.0 g/l (approx. 2.9 lb/US gal)	
Recommended dry film thickness	50 - 150 μm (2.0 - 6.0 mils)	
Theoretical spreading rate	8.9 m²/l for 75 $\mu$ m (358 ft²/US gal for 3.0 mils) 6.7 m²/l for 100 $\mu$ m (269 ft²/US gal for 4.0 mils)	
Dry to touch	1.5 hours	
Overcoating Interval	Minimum: 6 hours Maximum: Unlimited	
Full cure after	4 days	
Shelf life	Base: at least 24 months when stored cool and dry Hardener: at least 24 months when stored cool and dry	

#### Notes:

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

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#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

#### **Steel**

Steel; blast cleaned to ISO Sa2½, blasting profile 40 – 70 μm (1.6 – 1.8 mils), or powertool cleaned to ISO St3

#### **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 9:1

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

#### Pot life

3 hours at 20°C (68°F)

#### Note:

- See ADDITIONAL DATA - Pot life

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#### 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

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## **ADDITIONAL DATA**

Spreading rate and film thickness			
DFT	Theoretical spreading rate		
75 µm (3.0 mils)	8.9 m²/l (358 ft²/US gal)		
100 μm (4.0 mils)	6.7 m <sup>2</sup> /l (269 ft <sup>2</sup> /US gal)		
150 μm (6.0 mils)	4.5 m²/l (179 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 Maximum	24 hours Unlimited	18 hours Unlimited	8 hours Unlimited	6 hours Unlimited	4 hours Unlimited

Overcoating interval with PPG 866M ACCELERATOR 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 Maximum	20 hours Unlimited	16 hours Unlimited	6 hours Unlimited	4 hours Unlimited	3 hours 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 touch	Dry to handle	Full cure	
-5°C (23°F)	10 hours	28 hours	15 days	
0°C (32°F)	6 hours	18 hours	11 days	
5°C (41°F)	3 hours	11 hours	8 days	
10°C (50°F)	2.5 hours	5 hours	5 days	
20°C (68°F)	1.5 hours	4 hours	4 days	
30°C (86°F)	1 hour	3 hours	3 days	

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Curing time with PPG 866M ACCELERATOR 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	15 hours	11 days
5°C (41°F)	2.5 hours	8 hours	8 days
10°C (50°F)	2 hours	3 hours	5 days
20°C (68°F)	1 hour	2 hours	4 days
30°C (86°F)	45 minutes	1.5 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)	4 hours		
20°C (68°F)	3 hours		
30°C (86°F)	1 hour		

#### Note:

- Mixing this product with PPG 866M ACCELERATOR will not affect the pot life

#### **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

## **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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#### **WARRANTY**

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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