## **DESCRIPTION**

Two-component, high-build, polyamine-cured vinyl epoxy primer/buildcoat

## PRINCIPAL CHARACTERISTICS

- · Epoxy primer or buildcoat in protective coating systems for steel structures in atmospheric exposure
- Cures at temperatures down to -5°C (23°F)
- · Fast-drying and handling
- ACQPA 32281-certified

## **COLOR AND GLOSS LEVEL**

- · Gray, yellow
- Flat

## 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	60 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 235.0 g/kg UK PG 6/23(92) Appendix 3: max. 345.0 g/l (approx. 2.9 lb/US gal)
Recommended dry film thickness	70 - 180 μm (2.8 - 7.1 mils) depending on system
Theoretical spreading rate	8.6 m²/l for 70 $\mu$ m (344 ft²/US gal for 2.8 mils) 3.3 m²/l for 180 $\mu$ m (136 ft²/US gal for 7.1 mils)
Dry to touch	50 minutes
Dry to handle	1 hour
Overcoating Interval	Minimum: 45 minutes Maximum: 12 months
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 16 months when stored cool and dry

## Notes:

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

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

## **Substrate conditions**

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Previous coat must be sound, dry and free from any contamination

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## Substrate temperature

- Substrate temperature during application and curing down to -5°C (23°F) is acceptable; provided the substrate is free
  from ice and dry
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should not exceed 85%
- Substrate temperature during application should not exceed 40°C (104°F)

## **INSTRUCTIONS FOR USE**

## Mixing ratio by volume: base to hardener 80:20 (4:1)

- The temperature of the mixed base and hardener should preferably be above 15°C (59°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**

15 minutes at 20°C (68°F)

## Pot life

6 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

## Air spray

## **Recommended thinner**

THINNER 21-06

## Volume of thinner

20 - 30%, depending on required thickness and application conditions

## **Nozzle orifice**

1.5 - 3.0 mm (approx. 0.060 - 0.110 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

20 - 30%, depending on required thickness and application conditions

## **Nozzle orifice**

Approx. 0.43 - 0.53 mm (0.017 - 0.021 in)

## Nozzle pressure

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

## **Brush/roller**

- For small areas only (touch up and repair)
- · Roller application is not recommended

## **Recommended thinner**

**THINNER 21-06** 

## **Volume of thinner**

0 - 5%

## Cleaning solvent

THINNER 90-53 or THINNER 21-06

## **ADDITIONAL DATA**

Spreading rate and film thickness			
DFT	Theoretical spreading rate		
70 μm (2.8 mils)	8.6 m²/l (344 ft²/US gal)		
100 μm (4.0 mils)	6.0 m²/l (241 ft²/US gal)		
180 µm (7.1 mils)	3.3 m²/l (136 ft²/US gal)		

Overcoating interval for DFT up to 70 μm (2.8 mils)					
Overcoating with	Interval	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
recommended topcoats	Minimum	3 hours	1.5 hours	45 minutes	25 minutes
	Maximum	12 months	12 months	12 months	12 months



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Overcoating interval for DFT up to 150 μm (6.0 mils)					
Overcoating with	Interval	0°C (32°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)
recommended topcoats	Minimum	4.5 hours	2.5 hours	1 hour	35 minutes
	Maximum	12 months	12 months	12 months	12 months

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 70 μm (2.8 mils)			
Substrate temperature	Dry to touch	Dry to handle	
0°C (32°F)	80 minutes	180 minutes	
10°C (50°F)	50 minutes	90 minutes	
20°C (68°F)	30 minutes	45 minutes	
30°C (86°F)	20 minutes	25 minutes	

Curing time for DFT up to 150 µm (6.0 mils)			
Substrate temperature	Dry to touch	Dry to handle	
0°C (32°F)	100 minutes	270 minutes	
10°C (50°F)	70 minutes	135 minutes	
20°C (68°F)	50 minutes	65 minutes	
30°C (86°F)	35 minutes	35 minutes	

## **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.

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## **REFERENCES**

<ul><li>CONVERSION TABLES</li><li>EXPLANATION TO PRODUCT DATA SHEETS</li></ul>	INFORMATION SHEET INFORMATION SHEET	1410 1411
SAFETY INDICATIONS	INFORMATION SHEET	1430
SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOS	SION HAZARD - INFORMATION SHEET	1431
TOXIC HAZARD		
SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
<ul> <li>DIRECTIVES FOR VENTILATION PRACTICE</li> </ul>	INFORMATION SHEET	1434
<ul> <li>CLEANING OF STEEL AND REMOVAL OF RUST</li> </ul>	INFORMATION SHEET	1490
<ul> <li>SPECIFICATION FOR MINERAL ABRASIVES</li> </ul>	INFORMATION SHEET	1491
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMP	PERATURE INFORMATION SHEET	1650

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