#### **DESCRIPTION**

Universal epoxy anticorrosive primer, based upon pure epoxy technology

#### PRINCIPAL CHARACTERISTICS

- · General-purpose epoxy primer in protective coating systems for steel and non-ferrous metals
- · Excellent adhesion to steel, shop primer, galvanized steel and non-ferrous metals
- Suitable as sealer or tie-coat at DFT 25 40 μm (1 1.6 mils)
- · Suitable for immersion service
- · Suitable for touching up of weld seams and damages of epoxy coatings during construction
- Compatible with well-designed, controlled cathodic protection systems
- Cures at temperatures down to -10°C (14°F)

#### **COLOR AND GLOSS LEVEL**

- · Yellow/green
- Low sheen

Note: The addition of a UV stable topcoat should be considered when using epoxy coatings in cosmetic areas

## BASIC DATA AT 10°C (50°F)

Data for mixed product				
Number of components	Two			
Mass density	1.4 kg/l (11.7 lb/US gal)			
Volume solids	57 ± 2%			
VOC (Supplied)	Directive 2010/75/EU, SED: max. 332.0 g/kg UK PG 6/23(92) Appendix 3: max. 438.0 g/l (approx. 3.7 lb/US gal)			
Recommended dry film thickness	50 - 100 μm (2.0 - 4.0 mils) depending on system			
Theoretical spreading rate	11.4 m²/l for 50 μm (457 ft²/US gal for 2.0 mils) 5.7 m²/l for 100 μm (229 ft²/US gal for 4.0 mils)			
Dry to touch	3 hours			
Overcoating Interval	Minimum: 3 hours See overcoating tables			
Full cure after	7 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

· Apply this product to the specified thickness as soon as possible after the surface is prepared

#### **Atmospheric exposure conditions**

- Steel; pretreated preferably to ISO-Sa2½, , blasting profile 40 70 μm (1.6 2.8 mils) or according to ISO-St3
- · Shop primed steel; pretreated to SPSS-Pt3

#### **Galvanized steel**

- The surface must be properly prepared, dry, clean and free of any contamination
- The surface should be sufficiently roughened by sweep blasting to achieve a uniform matt appearance
- Sweep blast in accordance with the SSPC SP-16 guidelines

#### Stainless steel

- · The surface must be properly prepared, dry, clean and free of any contamination
- The surface should be sufficiently roughened by sweep blasting with inert non-metallic abrasives
- Sweep blast in accordance with the SSPC SP-16 guidelines

#### **Thermal Sprayed Metallization (TSM)**

- Surface must be dry and free from any contamination
- The mist coat / full coat technique is required. See mist coat thinning recommendation in the Instructions For Use part below

## **Concrete / Masonry**

- · 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
- Existing pipelines may have to be cleaned first by scraper pigs and solvents

#### **Immersion exposure**

- Steel or steel with not approved zinc silicate shop primer; blast cleaned to ISO-Sa2½, blasting profile 30 75 μm (1.2 3.0 mils)
- Existing pipelines may have to be cleaned first by scraper pigs and solvents

#### Substrate temperature and application conditions

- Substrate temperature during application and curing should be between -10°C (14°F) and 15°C (59°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Ambient temperature during application at -10°C (14°F) is acceptable; however curing to hardness takes longer and complete cure will be reached when the temperature increases
- Relative humidity during application should not exceed 85%

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#### **INSTRUCTIONS FOR USE**

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

- 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

#### **Induction time**

None

## Pot life

8 hours at 10°C (50°F)

Note: See ADDITIONAL DATA - Pot life

#### Air spray

#### **Recommended thinner**

**THINNER 91-92** 

#### Volume of thinner

0 - 10%, depending on required thickness and application conditions

#### **Nozzle orifice**

1.5 - 2.0 mm (approx. 0.060 - 0.079 in)

## **Nozzle pressure**

0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

#### **Airless spray**

#### **Recommended thinner**

**THINNER 91-92** 

## Volume of thinner

0 - 10%, 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.)

Note: Volume of thinner up to 30% for sealer or tie-coat application at DFT range 25 - 40  $\mu$ m (1 - 1.6 mils)



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## **Brush/roller**

## **Recommended thinner**

No extra thinner is necessary

#### **Volume of thinner**

Up to 5% THINNER 91-92 can be added if desired

## **Cleaning solvent**

THINNER 90-53

#### **ADDITIONAL DATA**

Spreading rate and film thickness				
DFT	Theoretical spreading rate			
50 μm (2.0 mils)	11.4 m²/l (457 ft²/US gal)			
75 μm (3.0 mils)	7.6 m²/l (305 ft²/US gal)			
100 μm (4.0 mils)	5.7 m²/l (229 ft²/US gal)			

Note: Maximum dft when brushing:  $50 \ \mu m$ 

Overcoating interval for DFT up to 75 μm (3.0 mils)						
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	5°C (41°F)	10°C (50°F)	15°C (59°F)
itself and various two-	Minimum	16 hours	8 hours	4 hours	3 hours	2 hours
pack epoxy coatings	Maximum	3 months	3 months	2 months	2 months	1 month
polyurethane topcoat	Minimum	24 hours	16 hours	6 hours	4 hours	3 hours
	Maximum	3 months	3 months	2 months	2 months	1 month

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 75 µm (3.0 mils)					
Substrate temperature	Dry to touch	Dry to handle	Full cure		
-10°C (14°F)	20 hours	32 hours	21 days		
-5°C (23°F)	10 hours	16 hours	14 days		
5°C (41°F)	5 hours	6 hours	9 days		
10°C (50°F)	3 hours	4 hours	7 days		
15°C (59°F)	2 hours	3 hours	5 days		

Note: Adequate ventilation must be maintained during application and curing

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Pot life (at application viscosity)			
Mixed product temperature	Pot life		
5°C (41°F)	10 hours		
10°C (50°F)	8 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

#### **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**

EXPLANATION TO PRODUCT DATA SHEETS

INFORMATION SHEET

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