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 (1.0 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:



Ref. 7424

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

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 SP16 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 SP16 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 $30 75 \mu m$ (1.2 3.0 mils)
- Existing pipelines may have to be cleaned first by scraper pigs and solvents

Ref. 7424 Page 2/6



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 (37°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%

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 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

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.)

Ref. 7424 Page 3/6



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 μm (1.0 - 1.6 mils)

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 m ² /l (229 ft ² /US gal)			

Note:

- Maximum dft when brushing: 50 μm

Ref. 7424 Page 4/6



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-pack epoxy coatings	Minimum Maximum	16 hours 3 months	8 hours 3 months	4 hours 2 months	3 hours 2 months	2 hours 1 month
polyurethane topcoat	Minimum Maximum	24 hours 3 months	16 hours 3 months	6 hours 2 months	4 hours 2 months	3 hours 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

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 & 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.

Ref. 7424 Page 5/6



REFERENCES

Information sheet | Explanation of product data sheets

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Ref. 7424 Page 6/6