#### **DESCRIPTION**

Two-component, surface tolerant high solids polyamine cured epoxy primer/coating

#### PRINCIPAL CHARACTERISTICS

- · Self priming coating tolerant to lower grades of steel preparation for atmospheric exposure
- Cures at temperatures down to -5°C (23°F)
- · Particularly well-suited as maintenance coating for steel structures
- · Excellent corrosion resistance
- · Resistant to splash and spillage of a wide range of chemicals
- · Good abrasion resistance
- · Good flexibility
- Compatible with various aged coatings
- · Good recoatability with most epoxy, polyurethane, chlorinated rubber, alkyd and acrylic paints

# **COLOR AND GLOSS LEVEL**

- · Gray, off-white (other colors available on request)
- Gloss

# 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	83 ± 2%		
VOC (Supplied)	Directive 1999/13/EC, SED: max. 190.0 g/kg UK PG 6/23(92) Appendix 3: max. 268.0 g/l (approx. 2.2 lb/US gal)		
Recommended dry film thickness	60 - 150 μm (2.4 - 6.0 mils)		
Theoretical spreading rate	13.8 m²/l for 60 μm (555 ft²/US gal for 2.4 mils) 5.5 m²/l for 150 μm (222 ft²/US gal for 6.0 mils)		
Dry to touch	12 hours		
Overcoating Interval	Minimum: 16 hours Maximum: 2 months		
Full cure after	7 days		
Shelf life	Base: at least 12 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

#### **Substrate conditions**

- Steel; blast cleaned to ISO-Sa2½ for excellent corrosion protection
- Steel; blast cleaned to ISO-Sa2, blasting profile 40 70 μm (1.6 2.8 mils) or power tool cleaned to ISO-St2 for good corrosion protection
- Shop primed steel; pretreated to SPSS-Pt3
- · Existing sound coating systems; sufficiently roughened, dry and cleaned

# 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

# **INSTRUCTIONS FOR USE**

#### Mixing ratio by volume: base to hardener 83:17

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

#### **Induction time**

Mixed product induction time		
Mixed product temperature	Induction time	
Below 10°C (50°F)	15 minutes	

### Pot life

2 hours at 10°C (50°F)

Note: See ADDITIONAL DATA - Pot life

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#### Air spray

# **Recommended thinner**

THINNER 91-92

### Volume of thinner

10 - 15%, depending on required thickness and application conditions

#### **Nozzle orifice**

1.8 - 2.0 mm (approx. 0.070 - 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

5 - 10%, depending on required thickness and application conditions

#### **Nozzle orifice**

Approx. 0.48 - 0.53 mm (0.019 - 0.021 in)

#### Nozzle pressure

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

# **Brush/roller**

# **Recommended thinner**

THINNER 91-92 or THINNER 91-99 for better flow

# **Volume of thinner**

5 - 10%

# **Cleaning solvent**

THINNER 90-53

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#### **ADDITIONAL DATA**

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
60 μm (2.4 mils)	13.8 m²/l (555 ft²/US gal)	
100 μm (4.0 mils)	8.3 m²/l (333 ft²/US gal)	
150 µm (6.0 mils)	5.5 m²/l (222 ft²/US gal)	

Overcoating interval for DFT up to 150 µm (6.0 mils)						
Overcoating with	Interval	-5°C (23°F)	0°C (32°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)
various two-component	Minimum	48 hours	24 hours	20 hours	16 hours	8 hours
epoxy coatings	Maximum	2 months	2 months	2 months	2 months	2 months
polyurethanes	Minimum	4 days	64 hours	36 hours	24 hours	16 hours
	Maximum	1 month	1 month	1 month	1 month	1 month

# Notes:

- Surface should be dry and free from any contamination
- Best intercoat adhesion occurs when the subsequent coat is applied before the preceding coat is fully cured
- After exceeding of the maximum interval, glossy finishes require a corresponding undercoat
- If this time is exceeded it may be necessary to roughen the surface

Curing time for DFT up to 150 ⊠m (6.0 mils)			
Substrate temperature	Dry to touch	Dry to handle	Full cure
-5°C (23°F)	24 hours	48 hours	21 days
0°C (32°F)	16 hours	24 hours	14 days
5°C (41°F)	14 hours	20 hours	10 days
10°C (50°F)	12 hours	16 hours	7 days
20°C (68°F)	4 hours	8 hours	5 days

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
0°C (32°F)	3 hours	
10°C (50°F)	2 hours	
20°C (68°F)	1 hour	

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#### **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.

#### **REFERENCES**

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

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