DESCRIPTION

Two-component, high-build, amine adduct-cured novolac phenolic epoxy primer

PRINCIPAL CHARACTERISTICS

- Subsea primer for 2-coat system with PHENGUARD SUBSEA 780
- Excellent resistance to high temperature cathodic protection
- Meets the requirements of Norsok M-501 rev. 6, system 7C (180°C / 356°F)
- · Excellent resistance to seawater immersion
- Very good corrosion control
- Good application properties

COLOR AND GLOSS LEVEL

- · Reddish gray
- Eggshell

BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	1.7 kg/l (14.2 lb/US gal)	
Volume solids	66 ± 2%	
VOC (Supplied)	Directive 1999/13/EC, SED: max. 191.0 g/kg max. 315.0 g/l (approx. 2.6 lb/US gal)	
Recommended dry film thickness	175 μm (7.0 mils)	
Theoretical spreading rate	3.8 m²/l for 175 μm (151 ft²/US gal for 7.0 mils)	
Dry to handle	8 hours	
Overcoating Interval	Minimum: 3 hours Maximum: 21 days	
Full cure after	See curing table	
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
- See ADDITIONAL DATA Spreading rate and film thickness

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Steel should be blast cleaned in situ to at least ISO-Sa2½
- Blasting profile 50 100 μm (2.0 4.0 mils)
- · Steel must be free from rust, scale, shop primer and any other contamination

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 10°C (50°F)
- 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 88:12

- The temperature of the paint 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

Allow induction time before use

Mixed product induction time		
Mixed product temperature	Induction time	
15°C (59°F)	20 minutes	
20°C (68°F)	15 minutes	
30°C (86°F)	10 minutes	

Pot life

4 hours at 20°C (68°F)

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

2 - 15%, depending on required thickness and application conditions

Nozzle orifice

2.0 mm (approx. 0.079 in)

Nozzle pressure

0.3 MPa (approx. 3 Bar; 44 p.s.i.)

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Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

2 - 10%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.46 - 0.53 mm (0.018 - 0.021 in)

Nozzle pressure

15.0 - 20.0 MPa (approx. 150 - 200 bar; 2176 - 2901 p.s.i.)

Brush/roller

· Brush: for stripe coating and spot repair only

Recommended thinner

THINNER 91-92

Volume of thinner

2 - 10%

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
175 μm (7.0 mils)	3.8 m²/l (151 ft²/US gal)	

Note: Maximum DFT when brushing: 80 µm (3.1 mils)

Overcoating interval for DFT up to 175 μm (7.0 mils)						
Overcoating with	Interval	10°C (50°F)	15°C (59°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself and PHENGUARD SUBSEA 780	Minimum Maximum	16 hours 28 days	6 hours 25 days	3 hours 21 days	3 hours 14 days	2 hours 7 days

Note: Surface should be dry and free from any contamination

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Curing time for DFT up to 175 μm (7.0 mils)		
Substrate temperature	Dry to handle	Full cure
10°C (50°F)	16 hours	5 days
15°C (59°F)	12 hours	4 days
20°C (68°F)	8 hours	3 days
30°C (86°F)	6 hours	48 hours

Notes:

- Adequate ventilation must be maintained during application and curing
- The coating should be allowed to cure for 24 hours at the same temperature, with sufficient ventilation, before it is exposed to lower temperatures

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	6 hours	
20°C (68°F)	4 hours	
30°C (86°F)	1.5 hours	

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

 CONVERSION TABLES EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD - TOXIC HAZARD 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1410 1411 1430 1431
 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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