DESCRIPTION

Two-component, surface tolerant high solid glass flake epoxy coating

PRINCIPAL CHARACTERISTICS

- Primarily designed for use in offshore splash zone maintenance
- · Designed for use in heavy-duty and corrosive environments
- · Outstanding sea water resistance
- · Excellent corrosion resistance
- · Enhanced impact and abrasion resistance
- · Continues to cure when immersed in water
- · Long-term protection in a single-coat application
- · Resistant to well designed cathodic protection
- Suitable for application on exterior of buried pipes
- · Suitable on wet blast or ultra high pressure water (UHPWW) cleaned substrates (damp or dry)

COLOR AND GLOSS LEVEL

- · Yellow, black (other colors available on request)
- Gloss

Note: Epoxy coatings will characteristically chalk and fade upon exposure to sunlight. Light colors are prone to ambering to some extent in interior or exterior exposures

BASIC DATA AT 20°C (68°F)

Data for mixed product			
Number of components	Two		
Mass density	1.5 kg/l (12.1 lb/US gal)		
Volume solids	85 ± 2%		
VOC (Supplied)	Directive 1999/13/EC, SED: max. 122.0 g/kg UK PG 6/23(92) Appendix 3: max. 207.0 g/l (approx. 1.7 lb/US gal) EPA Method 24: 200.0 g/ltr (1.7 lb/USgal)		
Recommended dry film thickness	150 - 1000 μm (6.0 - 40.0 mils) depending on system		
Theoretical spreading rate	4.3 m²/l for 200 μm (170 ft²/US gal for 8.0 mils)		
Dry to touch	3 hours		
Overcoating Interval	Minimum: 3.5 hours Maximum: 14 days		

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Data for mixed product	
	Base: at least 24 months when stored cool and dry Hardener: 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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- · Coating performance will depend upon the surface preparation degree
- For atmospheric service, abrasive blast to ISO-Sa2½ or minimum SSPC SP-6, power tool cleaned to ISO-St3 (SSPC SP-3) or hand tool cleaned to ISO-St2 (SSPC SP-2) or ultra high pressure water jet to SSPC SP WJ-2(L) / NACE WJ-2(L)
- For immersion service: steel; blast cleaned to ISO-Sa2½ (SSPC SP-10), blasting profile 40 75 μm (1.6 3.0 mils)
- Higher profiles (>75 microns, 3.0 mils) is allowable with appropriate coating thickness
- Compatible previous coat must be dry and free from any contamination

Note: Coating performance is, in general, proportional to the degree of surface preparation.

Substrate temperature and application conditions

Substrate temperature during application should be at least 3°C (5°F) above dew point

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 75:25 (3:1)

- Thinner should be added after mixing the components
- Do not thin more than is required by appropriate application property
- · Adding too much thinner results in reduced sag resistance and slower cure

Induction time

None

Pot life

2 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

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Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

4 - 8%, depending on required thickness and application conditions

Nozzle orifice

1.5 - 3.0 mm (approx. 0.060 - 0.110 in)

Nozzle pressure

0.2 - 0.4 MPa (approx. 2 - 4 bar; 29 - 58 p.s.i.)

Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 8%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.53 - 0.69 mm (0.021 - 0.027 in)

Nozzle pressure

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

Brush/roller

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 5%

Cleaning solvent

THINNER 90-53

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ADDITIONAL DATA

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
200 μm (8.0 mils)	4.3 m²/l (170 ft²/US gal)	
500 μm (20.0 mils)	1.7 m²/l (68 ft²/US gal)	

Overcoating interval for DFT up to 500 μm (20.0 mils)							
Overcoating with	Interval	-5°C (23°F)	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	36 hours	14 hours	7 hours	3.5 hours	2 hours	1.5 hours
	Maximum	2 months	1.5 months	1 month	28 days	21 days	14 days
epoxy coatings	Minimum	36 hours	14 hours	7 hours	3.5 hours	2 hours	1.5 hours
	Maximum	1 month	28 days	21 days	14 days	7 days	4 days
polyurethanes	Minimum	48 hours	22 hours	14 hours	10 hours	6 hours	4 hours
	Maximum	1 month	28 days	21 days	14 days	7 days	4 days

Note: Surface should be dry and free from any contamination

Curing time for DFT up to 500 µm (20 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
-5°C (23°F)	24 hours	48 hours	30 days	
5°C (41°F)	10 hours	24 hours	18 days	
10°C (50°F)	5 hours	16 hours	14 days	
20°C (68°F)	3 hours	8 hours	7 days	
30°C (86°F)	2 hours	5 hours	5 days	
40°C (104°F)	1 hour	3 hours	3 days	

Notes

- The curing time is related to the DFT of the paint and ventilation of the drying condition. High DFT and poor ventilation will slow curing
- When total DFT is higher than 1500 μm (60.0 mils), curing times have to be 2 2.5 times in order to obtain sufficient mechanical strength.
- Premature exposure to water will lead to whitening of dark colours when applied between tides on jetties, piling etc. this will not affect
 anticorrosive properties of the coating
- 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	
10°C (50°F)	3 hours	
20°C (68°F)	2 hours	
30°C (86°F)	1 hour	



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Product Qualifications

Qualified for NORSOK M501 Rev.6 System 7A with 2 coating system

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

EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
SAFETY INDICATIONS	INFORMATION SHEET	1430
SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD –	INFORMATION SHEET	1431
TOXIC HAZARD		
SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434

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