### **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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n stored cool and dry 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

## WARRANTY

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