DESCRIPTION

Two-component, high solids glass flake reinforced polyamine adduct epoxy coating

PRINCIPAL CHARACTERISTICS

- · Excellent abrasion and impact resistance
- Suitable for use on ice-going vessels
- · Excellent resistance to corrosion
- · Long-term protection at areas subject to heavy wear and tear
- · Resistant to splash and spillage of a wide range of chemicals
- · Very low water permeability, due to glass flake barrier

COLOR AND GLOSS LEVEL

- Black (other (light) colors on request)
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.5 kg/l (12.5 lb/US gal)
Volume solids	81 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 165.0 g/kg max. 246.0 g/l (approx. 2.1 lb/US gal) China GB 30981-2020 (tested) 138.0 g/l (approx. 1.2 lb/gal)
Recommended dry film thickness	250 - 400 μm (10.0 - 16.0 mils) depending on system
Theoretical spreading rate	3.2 m²/l for 250 µm (130 ft²/US gal for 10.0 mils) 2.0 m²/l for 400 µm (81 ft²/US gal for 16.0 mils)
Dry to touch	3 hours
Overcoating Interval	Minimum: 16 hours Maximum: 28 days
Full cure after	5 days
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

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RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Suitable primer: SIGMACOVER 280 or SIGMAPRIME 200 is recommended
- Previous coat must be dry and free from any contamination

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°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 75:25 (3:1)

- 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
- Very good mechanical mixing of base and hardener is essential
- Thinner should be added after mixing the components
- Filters should be removed from spray equipment

Induction time

None

Pot life

1.5 hours at 20°C (68°F)

Note: See ADDITIONAL DATA - Pot life

Air spray

Recommended thinner

THINNER 91-92

Volume of thinner

5 - 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.)

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Airless spray

Recommended thinner

THINNER 91-92

Volume of thinner

0 - 5%, depending on required thickness and application conditions

Nozzle orifice

Approx. 0.53 - 0.79 mm (0.021 - 0.031 in)

Nozzle pressure

19.0 - 22.5 MPa (approx. 190 - 225 bar; 2756 - 3264 p.s.i.)

Brush/roller

- · Brush application only
- Only for touch-up and repair
- · Due to thixotropy, it is difficult to obtain a smooth film by brush, although this does not affect performance

Cleaning solvent

THINNER 90-53

ADDITIONAL DATA

Spreading rate and film thickness			
DFT	Theoretical spreading rate		
250 μm (10.0 mils)	3.2 m²/l (130 ft²/US gal)		
400 μm (16.0 mils)	2.0 m ² /l (81 ft ² /US gal)		

Notes:

- Maximum DFT when brushing: 80 μm (3.1 mils)
- Maximum recommended dft for complex structures is 250 μm (10.0 mils)

Overcoating interval for DFT up to 400 μm (16.0 mils)						
itself						
Overcoating with	Interval	5°C (41°F)	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	48 hours	32 hours	16 hours	12 hours	8 hours
	Maximum	28 days	28 days	28 days	14 days	7 days

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Curing time for DFT up to 400 µm (16.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Service- water immersion	
5°C (41°F)	16 hours	30 hours	14 days	
10°C (50°F)	8 hours	16 hours	10 days	
20°C (68°F)	3 hours	8 hours	5 days	
30°C (86°F)	2 hours	5 hours	4 days	
40°C (104°F)	1 hour	3 hours	3 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	
10°C (50°F)	3 hours	
20°C (68°F)	1.5 hours	
30°C (86°F)	45 minutes	

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	INFORMATION SHEET	1410
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
CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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