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#### **DESCRIPTION**

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

#### PRINCIPAL CHARACTERISTICS

- Low-temperature curing down to 0°C (32°F)
- · Excellent abrasion and impact resistance
- High glass flake level
- · Excellent resistance to corrosion
- · Long-term protection at areas subject to heavy wear and tear
- · Very low water permeability, due to glass flake barrier
- Tar free
- · Resistant to splash and spillage of a wide range of chemicals
- · Suitable for immersion service
- · Compatible with cathodic protection systems
- Up to 750 µm (30.0 mils) DFT in a single coat

## **COLOR AND GLOSS LEVEL**

- · Standard and custom colors
- Eggshell

## BASIC DATA AT 10°C (50°F)

Data for mixed product	
Number of components	Two
Mass density	1.5 kg/l (12.5 lb/US gal)
Volume solids	87 ± 3%
VOC (Supplied)	EPA Method 24: 172.0 g/ltr (1.4 lb/USgal)
Temperature resistance (Continuous)	To 218°C (420°F)
Temperature resistance (Intermittent)	To 232°C (450°F)
Recommended dry film thickness	200 - 750 μm (8.0 - 30.0 mils) depending on system
Theoretical spreading rate	4.4 m²/l for 200 μm (174 ft²/US gal for 8.0 mils)
Overcoating Interval	Minimum: 16 hours Maximum: 3 months
Full cure after	16 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
- Intermittent temperature resistance should be less than 5% of the time, and maximum 24 hours
- Temperature resistance is in atmospheric condition. Please contact your PPG representative for immersion condition.

## RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

#### **Substrate conditions**

- Steel; blast cleaned to ISO-Sa2½, blasting profile 50 100 μm (2.0 4.0 mils)
- Suitable primer must be dry and free from any contamination

## Substrate temperature

- 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 50:50 (1:1)

- The temperature of the mixed base and hardener 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 hour at 20°C (68°F)

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#### **Air spray**

## **Recommended thinner**

THINNER 21-06

#### Volume of thinner

6 - 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.)

## **Airless spray**

## **Recommended thinner**

THINNER 21-06

### 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**

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

### **Cleaning solvent**

**THINNER 90-58** 

### **ADDITIONAL DATA**

Spreading rate and film thickness	
DFT	Theoretical spreading rate
200 μm (8.0 mils)	4.4 m²/l (174 ft²/US gal)
750 µm (30.0 mils)	1.2 m²/l (47 ft²/US gal)

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Overcoating interval for DFT up to 300 µm (12.0 mils)				
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)
itself	Minimum	16 hours	7 hours	4 hours
	Maximum	1 month	1 month	1 month
Two-component	Minimum	16 hours	7 hours	4 hours
polyurethane coatings	Maximum	14 days	7 days	4 days

#### Notes:

- Surface should be dry and free from any contamination
- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)
- An extended recoatable window may be allowable in some circumstances, please contact your PPG representative for more details

Curing time for DFT up to 300 µm (12.0 mils)			
Substrate temperature	Dry to handle	Full cure	
10°C (50°F)	24 hours	16 days	
20°C (68°F)	8 hours	8 days	
30°C (86°F)	5 hours	5 days	

Note: Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1422 and 1434)

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
10°C (50°F)	2 hours	
20°C (68°F)	1 hour	
30°C (86°F)	30 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.

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#### **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 – TOXIC HAZARD</li> </ul>	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1410 1411 1430 1431
<ul> <li>SAFE WORKING IN CONFINED SPACES</li> <li>DIRECTIVES FOR VENTILATION PRACTICE</li> <li>CLEANING OF STEEL AND REMOVAL OF RUST</li> <li>SPECIFICATION FOR MINERAL ABRASIVES</li> <li>RELATIVE HUMIDITY - SUBSTRATE TEMPERATURE - AIR TEMPERATURE</li> </ul>	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1433 1434 1490 1491 1650

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