## **DESCRIPTION**

Two-component, solvent-free polyurethane coating

## PRINCIPAL CHARACTERISTICS

- · Solvent-free coating for the protection of external of pipelines and underground storage tanks
- Certified to GBE/CW6 Part 1, meets EN10290
- Excellent corrosion resistance
- Fast-curing
- · Good abrasion and impact resistance
- Excellent adhesion
- · Good water resistance

## **COLOR AND GLOSS LEVEL**

- · Blue, gray, redbrown
- Gloss

## 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	100%	
VOC (Supplied)	Directive 2010/75/EU, SED: max. 1 g/kg (RAL 9006) max. 2.0 g/l (approx. 0.0 lb/US gal)	
Recommended dry film thickness	500 - 1500 μm (20.0 - 60.0 mils) depending on requirements	
Theoretical spreading rate	2.0 m²/l for 500 μm (80 ft²/US gal for 20.0 mils) 0.7 m²/l for 1500 μm (27 ft²/US gal for 60.0 mils)	
Dry to touch	30 minutes	
Full cure after	4 days	
Shelf life	Base: at least 12 months when stored cool and dry Hardener: at least 6 months when stored cool and dry	

## Notes:

- See ADDITIONAL DATA Spreading rate and film thickness
- See ADDITIONAL DATA Curing time

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#### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

## **Atmospheric exposure conditions**

• For atmospheric exposure a topcoat of SIGMADUR 520 is recommended

## Substrate temperature and application conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Recommended substrate temperature during application is between 10°C (50°F) to 50°C (122°F) and max. allowing temperature is 60°C (140°F)
- The substrate temperature must be at least 3°C(5°F) above dew point

#### **INSTRUCTIONS FOR USE**

#### Mixing ratio by volume: base to hardener 4:1

- · Application with twin-feed hot airless spray equipment
- No thinner should be added

## **Application**

- For a good intercoat adhesion it is necessary that a coated surface which should be repaired or completely recoated is roughened up by means of sweep blasting or abrading
- For manual repaint of small damages special repair sets are available called: "SIGMALINE 855 REPAIR", Product Data Sheet (7655RP)

## **Induction time**

0 minute

Note:

- No induction time required

#### Pot life

1 minute at 60°C (140°F)

Note:

See ADDITIONAL DATA – Pot life

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## **Airless spray**

- Twin-feed, hot airless spray
- Pumping viscosity is achieved at 40°C (104°F) to 60°C (140°F)
- Temperature in the mixing unit must be between 55°C (131°F) to 65°C (149°F)

#### **Recommended thinner**

No thinner should be added

#### **Nozzle orifice**

Approx. 0.58 - 0.79 mm (0.023 - 0.031 in)

## **Nozzle pressure**

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

## **Cleaning solvent**

THINNER 91-83

## **CLEANING PROCEDURE**

- Mixed material will become insoluble within a few minutes after mixing at 60°C (140°F)
- Parts of the spraying equipment containing mixed base and hardener must be cleaned immediately after completion of the job or during any interruption

## **ADDITIONAL DATA**

Spreading rate and film thickness		
DFT	Theoretical spreading rate	
500 μm (20.0 mils)	2.0 m <sup>2</sup> /l (80 ft <sup>2</sup> /US gal)	
1000 μm (40.0 mils)	1.0 m²/l (40 ft²/US gal)	
1500 μm (60.0 mils)	0.7 m²/l (27 ft²/US gal)	

## Note:

- Maximum DFT when brushing: 250 µm (10.0 mils)

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Curing time for DFT up to 1500 µm (60.0 mils)				
Substrate temperature	Dry to touch	Dry to handle	Full cure	
0°C (32°F)	3.5 hours	7 hours	12 days	
5°C (41°F)	2 hours	4 hours	10 days	
10°C (50°F)	1.5 hours	3 hours	8 days	
15°C (59°F)	1 hour	1.5 hours	6 days	
20°C (68°F)	30 minutes	1 hour	4 days	
30°C (86°F)	15 minutes	30 minutes	48 hours	
40°C (104°F)	6 minutes	15 minutes	24 hours	
50°C (122°F)	3 minutes	6 minutes	12 hours	

## Note:

- Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
20°C (68°F)	5 minutes	
50°C (122°F)	2 minutes	
60°C (140°F)	1 minute	
70°C (158°F)	30 seconds	

## **SAFETY PRECAUTIONS**

- Although this is a solvent-free paint, care should be taken to avoid inhalation of spray mist, as well as contact between the wet paint and exposed skin or eyes
- See Safety Data Sheet and product label for complete safety and precaution requirements
- · Ventilation should be provided in confined spaces to maintain good visibility

## **WORLDWIDE AVAILABILITY**

It is always the aim of PPG Protective & 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**

• Information sheet | Explanation of product data sheets

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#### **WARRANTY**

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