#### **DESCRIPTION**

Two-component, solvent-free polyurethane coating

#### PRINCIPAL CHARACTERISTICS

- · Solvent-free coating for the protection of external of pipelines and underground storage tanks
- Meets the requirements of BS EN 10290 and SANS 1217
- Excellent corrosion resistance
- Fast-curing
- · Good abrasion and impact resistance
- Excellent adhesion
- · Good water resistance

## **COLOR AND GLOSS LEVEL**

- Gray
- Gloss

## BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	1.8 kg/l (15.2 lb/US gal)	
Volume solids	100%	
VOC (Supplied)	Directive 2010/75/EU, SED: max. 1.0 g/kg 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	$2.0 \text{ m}^2/\text{I}$ for $500  \mu\text{m}$ ( $80  \text{ft}^2/\text{US}$ gal for $20.0  \text{mils}$ ) $0.7  \text{m}^2/\text{I}$ for $1500  \mu\text{m}$ ( $27  \text{ft}^2/\text{US}$ gal for $60.0  \text{mils}$ )	
Dry to touch	10 minutes	
Full cure after	1.5 hours	
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

40 seconds 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	
5°C (41°F)	25 minutes	30 minutes	2.5 hours	
10°C (50°F)	18 minutes	28 minutes	2 hours	
20°C (68°F)	10 minutes	18 minutes	1.5 hours	
30°C (86°F)	8 minutes	14 minutes	1.5 hours	
40°C (104°F)	3 minutes	7 minutes	1.5 hours	
50°C (122°F)	2 minutes	3 minutes	1 hour	

#### Note:

- Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)		
Mixed product temperature	Pot life	
20°C (68°F)	1.5 minutes	
50°C (122°F)	50 seconds	
60°C (140°F)	40 seconds	
70°C (158°F)	20 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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