DESCRIPTION

Two-component, solvent-free polyurethane coating

PRINCIPAL CHARACTERISTICS

- · Solvent-free coating for the protection of the internal and external of pipelines and underground storage tanks
- · Excellent corrosion resistance
- · Extremely fast-curing
- · Good abrasion and impact resistance
- Excellent adhesion
- · Good water resistance
- Approved for exterior protection by EN10290, AWWA C222-08 and SANS1217 (Ed.2)

COLOR AND GLOSS LEVEL

- · Gray, blue
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product		
Number of components	Two	
Mass density	1.3 kg/l (10.8 lb/US gal)	
Volume solids	100%	
VOC (Supplied)	Directive 2010/75/EU, SED: max. 1.0 g/kg max. 1.0 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	0.7 m ² /l for 1500 μm (27 ft ² /US gal for 60.0 mils)	
Dry to touch	2 minutes	
Full cure after	12 hours	
Shelf life	Base: at least 9 months when stored cool and dry Hardener: at least 9 months when stored cool and dry	

Notes

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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

• Steel; blast cleaned to ISO-Sa2½, blasting profile 75 – 100 μ m (3.0 – 4.0 mils)

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Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 10°C (50°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application should not exceed 75%, and good ventilation is required

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 50:50 (1:1)

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

Induction time

None

Pot life

10 seconds at 60°C (140°F)

Note: See ADDITIONAL DATA - Pot life

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)
- For atmospheric exposure a top coat of SigmaDur series is recommended.

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 65°C (149°F) to 75°C (167°F)

Recommended thinner

No thinner should be added

Nozzle orifice

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

Nozzle pressure

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

Note: Temperature at nozzle should be 60°C (140°F)

Cleaning solvent

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Cleaning procedures

- Mixed material will become insoluble within a few seconds 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 ² /l (80 ft ² /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)	

Curing time for DFT up to 1500 µm (60.0 mils)					
Substrate temperature	Dry to touch	Dry to handle	Full cure		
10°C (50°F)	2 minutes - 4 minutes	8 minutes - 10 minutes	24 hours		
20°C (68°F)	1.5 minutes - 3 minutes	4 minutes - 7 minutes	12 hours		
40°C (104°F)	50 seconds - 1.5 minutes	3 minutes - 5 minutes	8 hours		
60°C (140°F)	30 seconds - 1 minute	1 minute - 2 minutes	4 hours		

Note: Adequate ventilation must be maintained during application and curing

Pot life (at application viscosity)			
Mixed product temperature	Pot life		
10°C (50°F)	1 minute		
30°C (86°F)	20 seconds - 30 seconds		
60°C (140°F)	5 seconds - 10 seconds		

SAFETY PRECAUTIONS

- · See Safety Data Sheet and product label for complete safety and precaution requirements
- 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
- Contains a polyisocyanate curing agent

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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

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