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 and by AWWA C222-18 for external and internal

COLOR AND GLOSS LEVEL

- · Gray, blue, offwhite
- 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 m²/l for 1500 μm (27 ft²/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 1:1

- · 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)
- For atmospheric exposure a top coat of SIGMADUR series is recommended

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0 minute

Pot life

10 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 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 - 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

• THINNER 90-53

Cleaning procedure

- 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 m ² /l (27 ft ² /US gal)	

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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
10°C (50°F)	2 - 4 minutes	8 - 10 minutes	24 hours
20°C (68°F)	1.5 - 3 minutes	4 - 7 minutes	12 hours
40°C (104°F)	50 - 90 seconds	3 - 5 minutes	8 hours
60°C (140°F)	30 - 60 seconds	1 - 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 - 30 seconds	
60°C (140°F)	5 - 10 seconds	

SAFETY PRECAUTIONS

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

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

WARRANTY

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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