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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

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Atmospheric exposure conditions

• For atmospheric exposure a topcoat of SIGMADUR 520 is recommended

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Substrate temperature and application conditions

- Steel; blast cleaned to ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)
- Recommending 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 80:20 (4:1)

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

Induction time

None

Pot life

1 minute 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)

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 in - 0.031 in)

Nozzle pressure

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

Cleaning solvent

THINNER 91-83

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Cleaning procedures

- 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 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)	

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

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 (please refer to INFORMATION SHEETS 1433 and 1434)

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			

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SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION SHEETS 1430, 1431 and relevant Material Safety Data Sheets
- 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
- · Ventilation should be provided in confined spaces to maintain good visibility

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

 SIGMALINE™ 855 REPAIR CONVERSION TABLES EXPLANATION TO PRODUCT DATA SHEETS 	PRODUCT DATA SHEET INFORMATION SHEET INFORMATION SHEET	7655RP 1410 1411
 EXPLANATION TO PRODUCT DATA SHEETS SAFETY INDICATIONS SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD - 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1430 1431
TOXIC HAZARD • DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
 CLEANING OF STEEL AND REMOVAL OF RUST SPECIFICATION FOR MINERAL ABRASIVES SURFACE PREPARATION OF STEEL PIPES AND FITTINGS SHOP APPLICATION 	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1490 1491 1492
 SURFACE PREPARATION OF STEEL PIPES AND FITTINGS SHOP APPLICATION INTERNAL CHEMICAL CLEANING OF STEEL PIPES IN-SITU APPLICATION RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE 	INFORMATION SHEET INFORMATION SHEET	1493 1650

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