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 μ m (80 ft²/US gal for 20.0 mils) 0.7 m²/l for 1500 μ m (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

Ref. 7655 Page 1/4



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

Ref. 7655 Page 2/4



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		

pPG

Ref. 7655 Page 3/4

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 SAFETY INDICATIONS 	PRODUCT DATA SHEET INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	7655RP 1410 1411 1430
SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD DIRECTIVES FOR VENTIL ATION PRACTICE	INFORMATION SHEET	1431
CLEANING OF STEEL AND REMOVAL OF RUST SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET INFORMATION SHEET INFORMATION SHEET	1434 1490 1491
 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 INFORMATION SHEET	1492 1493 1650

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.

LIMITATIONS OF LIABILITY

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.



Ref. 7655 Page 4/4