



4 pages April 2009 **Revision of November 2008** DESCRIPTION two component solvent free amine cured phenolic epoxy coating **PRINCIPAL CHARACTERISTICS** – one coat tank coating system excellent resistance to crude oil up to 90°C - suitable for storage of unleaded gasolines blended up to 100% ethanol (E5 up to E100) suitable for storage of biodiesel (EN14214) \_ good chemical resistance against a wide range of chemicals and solvents good visibility due to light colour semigloss and smooth appearance - clear version for glassmat reinforced solvent free tank bottom system (see system sheet 4155) easy to clean - can be applied by heavy duty single feed airless spray equipment (60:1) reduced explosion risk and fire hazard COLOURS AND GLOSS green, cream, clear - semigloss **BASIC DATA AT 20°C**  $(1 \text{ g/cm}^3 = 8.25 \text{ lb/US gal}; 1 \text{ m}^2/\text{I} = 40.7 \text{ ft}^2/\text{US gal})$ (data for mixed product) Mass density 1.4 g/cm<sup>3</sup> Volume solids 100% VOC (supplied) max. 94 g/kg (Directive 1999/13/EC, SED) max. 131 g/l (approx. 1.1 lb/gal) see information sheet 1411 Recommended dry film thickness 300 - 600 µm depending on system Theoretical spreading rate 3.3 m<sup>2</sup>/l for 300 µm \* Touch dry after 8 hours min. 24 hours \* Overcoating interval max. 2 months \* Full cure after 6 days \* (data for components) at least 12 months Shelf life (cool and dry place) \* see additional data RECOMMENDED steel; blast cleaned to a minimum of ISO-Sa21/2, blasting profile 50 - 100 µm substrate temperature should be above 5°C and at least 3°C above dew SUBSTRATE CONDITIONS AND TEMPERATURES point during application and curing

> steel with suitable primer (SigmaGuard 260) which must be dry, clean and free from any contamination





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INSTRUCTIONS FOR USE	mixing ratio by volume: base to h	ardener 80 : 20	
	<ul> <li>the temperature of the mixed least 20°C</li> </ul>	base and hardener shou	uld preferably be at
	<ul> <li>at lower temperature the visco</li> <li>no thinner should be added</li> </ul>	osity will be too high for	spray application
	<ul> <li>for recommended application</li> </ul>	instructions: see workin	g procedure
Induction time	none		
Pot life	1 hour at 20°C * * see additional data		
AIRLESS SPRAY	use heavy duty single feed airless and suitable high pressure hoses		erably 60:1 pump ratio
Recommended thinner Nozzle orifice	no thinner should be added approx. 0.53 mm (= 0.021 in)		
Nozzle pressure	at 20°C (paint temperature) min. 2 at 30°C (paint temperature) min. 2	( II	· · · · · ·
BRUSH/ROLLER Recommended thinner	for stripe coating and spot repair no thinner should be added	only	
CLEANING SOLVENT	<ul> <li>Thinner 90-83 (preferred) or Thina</li> <li>all application equipment mus</li> <li>paint inside the spraying equiphas been expired</li> </ul>	t be cleaned immediate	•
SAFETY PRECAUTIONS	for paint and recommended thinners see safety sheets 1430, 1431 and relevan material safety data sheets		430, 1431 and relevant
	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		
	<ul> <li>no solvent present; however, spray mist is not harmless, a fresh air mask should be used during spraying</li> <li>ventilation should be provided in confined spaces to maintain good visibility</li> </ul>		
ADDITIONAL DATA	Film thickness and spreading rate		
	theoretical spreading rate m²/l	3.3	1.7
	dft in µm	300	600

max. dft when brushing:







150 µm

#### measuring wet film thickness

 a deviation is often obtained between the measured apparent wft and the real applied wft

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- this is due to the thixotropy and the surface tension of the paint which retards the release of air trapped in the paint film for some time
- recommendation is to apply a wft which is equal to the specified dft plus 60  $\mu\text{m}$

#### measuring dry film thickness

- because of low initial hardness the dft cannot be measured for some days (depending on ambient temperature) after application due to the penetration of the measuring device into the paint film
- the dft should be measured using a calibration foil of known thickness placed in between the coating and the measuring device

#### Overcoating table with itself (spot repair and stripe coating)

substrate temperature	10°C	20°C	30°C
minimum interval	36 hours	24 hours	16 hours
maximum interval	3 months	2 months	1 month

- surface should be dry and free from any contamination

#### Curing table

substrate temperature	dry to handle	full cure
10°C	40 hours	10 days
20°C	18 hours	6 days
30°C	12 hours	4 days

- adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)
- for storage and transport of drinking water the recommended working procedure should be followed

#### Pot life (at application viscosity)

20°C	60 min.	
30°C	45 min.	

 due to exothermic reaction, temperature during and after mixing may increase





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Worldwide availability	Whilst it is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis, 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 Safety indications Safety in confined spaces and health safety	see information sheet 1411 see information sheet 1430
	Explosion hazard - toxic hazard Safe working in confined spaces	see information sheet 1431 see information sheet 1433
	Directives for ventilation practice	see information sheet 1434
	Cleaning of steel and removal of rust Specification for mineral abrasives	see information sheet 1490 see information sheet 1491

#### LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Sigma Coatings products made by PPG Protective & Marine Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

PPG Protective & Marine Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. PPG Protective & Marine Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

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The English text of this document shall prevail over any translation thereof.

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269264	green	4194542200
282887	cream	3002002200





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