	4 pages	October 2009 Revision of January 2007	
DESCRIPTION	two component moisture curing, low zinc (ethyl) silicate prefabrication primer		
PRINCIPAL CHARACTERISTICS	<ul> <li>suitable for automatic application on shot bla</li> <li>fast drying properties</li> <li>good cutting and excellent welding properties various positions (either automatic or manual provides regular, smooth weld seams</li> <li>low fume release during welding and cutting</li> <li>no adherence of weldspatter at surrounding</li> <li>excellent thermal stability minimizes heat dat procedures</li> <li>can be used as a first coat in various paint sy suitable for sea water immersion in combinati protection systems</li> <li>approved by Lloyd's Register of Shipping for (see sheet 1880)</li> <li>Health certificate from North of England Indua 1881)</li> </ul>	s, including MIG/MAG welding in I welding) primed surface mage during hot work ystems tion with controlled cathodic	
COLOURS AND GLOSS	redbrown (grey on request) - flat		
BASIC DATA AT 20°C	(1 g/cm <sup>3</sup> = 8.25 lb/US gal; 1 m <sup>2</sup> /l = 40.7 ft <sup>2</sup> /US ga (data for mixed product)	al)	
Mass density Volume solids VOC (supplied) Recommended dry film thickness Theoretical spreading rate Touch dry after Overcoating interval	1.3 g/cm <sup>3</sup> 25 $\pm$ 2% max. 521 g/kg (Directive 1999/13/EC, SED) max. 676 g/l (approx. 5.6 lb/gal) 18 µm - see further: "Recommended substrate conditions and temper 11.4 m <sup>2</sup> /l for 18 µm 6 min. at substrate temperature of 20°C 3 min. at substrate temperature of 40°C min. 3 days max. 6 months longer overcoating intervals can be permitted whe condition		
	(data for components)		
Shelf life (cool and dry place)	binder: at least 9 months paste: at least 12 months		





DATA



system sheet: 3015

### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

- steel; shot blast cleaned to ISO-Sa2½, blasting profile 30 75 μm
- on steel blasted to above profile, the recommended dft, 18 µm, corresponds to 22 µm as measured on a smooth test panel

DATA

- minimum thickness for a closed film is 15 µm measured on a smooth test panel
- substrate temperature may be up to max. 35°C
- for automatic application a substrate temperature of 30°C is recommended
- substrate temperature should be at least 3°C above dew point
- relative humidity during curing should be above 50% and below 85%
- dust quantity rating "1" for dust size class "3", "4" or "5", lower dust size classes to be removed if visible on the surface to be coated without magnification (ISO 8502-3:1992)

#### SYSTEM SPECIFICATION

primers

### SECONDARY SURFACE PREPARATION

- during storage and construction, contamination of the prefabrication primer should be limited
- after fabrication, surface defects should be treated according to the scheme below
- where two possible surface treatments are indicated, the choice of treatment is dependent on the location and on the system to be applied (see system sheets)
- the preferred pretreatment for optimal results is shown; other possibilities are indicated in brackets

areas	immersed conditions	atmospheric conditions
contamination	to be removed or	to be removed
	ISO 8501-3 grade P2	
weldseams	ISO-Sa21/2 (SPSS-Pt3) or	SPSS-Pt2
	ISO 8501-3 grade P2	
burned	ISO-Sa21/2 (SPSS-Pt3) or	SPSS-Ss (SPSS-Pt2)
	ISO 8501-3 grade P2	
damaged corroded	ISO-Sa21/2 (SPSS-Pt3) or	SPSS-Ss (SPSS-Pt2)
-	ISO 8501-3 grade P2	
white rust	SPSS-ID Pt2 (SCAP *) or	SPSS-ID Pt1 (SCAP *)
	ISO 8501-3 grade P2	
	_	

\* cleaning by silicon carbide impregnated abrasive pad

Dust quantity rating "1" for dust size class "3", "4" or "5", lower dust size classes to be removed if visible on the surface to be coated without magnification (ISO 8502-3).

Note that the back of welded plate may show discoloration (especially on plate where fillets have been welded on), this is not to be confused with burned areas and does not require special treatment.

Burned through areas may be present (this happens especially when welding thin steel) and these should then be treated as per 'burned areas' above.







October 2009

DATA

INSTRUCTIONS FOR USE	mixing ratio by volume: binder to paste 66.7 : 33.3		
	<ul> <li>the temperature of the mixture of binder and parabove 15°C</li> <li>stir the paste thoroughly before adding the binder</li> </ul>		
	- add gradually one third of the binder to the pigm		
	<ul> <li>stir thoroughly till homogeneous</li> <li>add remaining binder and continue stirring until</li> </ul>	the mixture is homogeneous	
	<ul> <li>strain mixture through a 30 - 60 mesh screen</li> <li>mixed paint is ready for use</li> </ul>	0	
	<ul> <li>- Inited paint is ready for use</li> <li>- some addition of thinner (Thinner 90-53) might l routing, line speed and steel temperature</li> <li>- agitate continuously during application</li> </ul>	be necessary depending on	
Pot life	24 hours at 20°C		
AIRLESS SPRAY Recommended thinner	no thinner should be added		
Nozzle orifice	approx. 0.43 - 0.53 mm (= 0.017 - 0.021 in)		
Nozzle pressure	8 - 12 MPa (= approx. 80 - 120 bar; 1140 - 1700 p.s	5.1.)	
AIR SPRAY Recommended thinner	no thinner should be added		
Nozzle orifice	1 - 1.5 mm		
Nozzle pressure	0.3 MPa (= approx. 3 bar; 43 p.s.i.)		
CLEANING SOLVENT	recommended Thinner 90-53		
SAFETY PRECAUTIONS	<b>ETY PRECAUTIONS</b> for paint and recommended thinners see safety sheets 1430, 7 material safety data sheets		
	this is a solvent borne paint and care should be tak spray mist or vapour as well as contact between the or eyes		
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	see information sheet 1411 see information sheet 1430	
	Safety in confined spaces and health safety		
	Explosion hazard - toxic hazard Cleaning of steel and removal of rust	see information sheet 1431 see information sheet 1490	
	Relative humidity - substrate temperature -	and information about 1050	
	air temperature	see information sheet 1650	







October 2009

DATA

#### 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).

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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.

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

	PDS	7177
179165	redbrown	2008002180
179167	grey	5000002180



