	5 pages	February 2010 Revision of September 2009
DESCRIPTION	two component polyamide cured epoxy primer	
PRINCIPAL CHARACTERISTICS	<ul> <li>general purpose epoxy primer in protective coal non ferrous metals</li> <li>good adhesion to steel and galvanised steel</li> <li>good adhesion to non ferrous metals</li> <li>good flow and wetting properties</li> <li>good water and corrosion resistance</li> <li>cures at temperatures down to +5°C</li> <li>suitable for touching up of weld seams and dan during construction</li> <li>excellent recoatability</li> <li>can be overcoated with most alkyd-, chlorinated two component polyurethane coatings</li> <li>suitable on wet blast cleaned substrates (damp compatible with well designed cathodic protection)</li> </ul>	nages of epoxy coatings d rubber-, vinyl-, epoxy- and
COLOURS AND GLOSS	yellow/green (redbrown on request) - eggshell	
BASIC DATA AT 20°C Mass density Volume solids VOC (supplied) Recommended dry film thickness	(1 g/cm <sup>3</sup> = 8.25 lb/US gal; 1 m <sup>2</sup> /l = 40.7 ft <sup>2</sup> /US gal) (data for mixed product) 1.3 g/cm <sup>3</sup> 57 $\pm$ 2% max. 327 g/kg (Directive 1999/13/EC, SED) max. 432 g/l (approx. 3.6 lb/gal) 50 - 100 µm depending on system	
Theoretical spreading rate Touch dry after Overcoating interval Full cure after	11.4 m²/l for 50 µm, 5.7 m²/l for 100 µm * 1.5 hour min. see tables * max. see tables * 7 days *	
	(data for components)	
Shelf life (cool and dry place)	at least 24 months * see additional data	
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul> <li>for immersion exposure:</li> <li>steel or steel with not approved zinc silicate (dry or wet) to ISO-Sa2<sup>1</sup>/<sub>2</sub>, blasting profile 30</li> </ul>	

steel with approved zinc silicate shop primer; weld seams and areas of • damaged shop primer or breakdown should be blast cleaned to ISO-Sa2½, blasting profile 30 - 75  $\mu m$  or power tool cleaned to SPSS-Pt3

DATA

coated steel; hydrojetted to VIS WJ2 L (blasting profile 40 - 70 µm) •

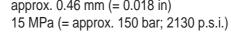




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	<ul> <li>radius of minimum 2 mm or sutes steel or steel with not approved ISO-Sa2½, blasting profile 30</li> <li>steel with approved zinc silicated damaged shop primer or breated Sa2½, blasting profile 30 - 75</li> <li>for shop primer with IMO transmission of the steel with removing at least 70% of in the steel with the</li></ul>	P2, with all edges treated to a rounded ubject to three pass grinding ed zinc silicate shop primer; blast cleaned to - 75 μm te shop primer; weld seams and areas of kdown should be blast cleaned to ISO- μm ype approval; no additional requirements O type approval; blast cleaned to ISO-Sa2 ntact shop primer, blasting profile 30 - 75 est size class "3", "4" or "5", lower dust size le on the surface to be coated without 92) <b>ditions:</b> 12½, blasting profile 30 - 75 μm or to SPSS-Pt3 in grease, salts, contamination and above 5°C and at least 3°C above dew g
SYSTEM SPECIFICATION	marine	system sheets: 3101, 3102, 3103, 3104, 3105, 3106 (spec. 5,7), 3107, 3108
INSTRUCTIONS FOR USE	mixing ratio by volume: base to hard	ener 80 : 20
	•	
Induction time	none	
Pot life	8 hours at 20°C * * see additional data	
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice	Thinner 91-92 0 - 10%, depending on required thick approx. 0.46 mm (= 0.018 in)	ness and application conditions





Nozzle pressure



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AIR SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 91-92 0 - 10%, dependir 1.5 - 2 mm 0.3 - 0.4 MPa (= a	•			ion condition	IS
BRUSH/ROLLER Recommended thinner Volume of thinner	no extra thinner is but up to 5% Thin	•	n be added	if desired		
CLEANING SOLVENT	Thinner 90-53					
SAFETY PRECAUTIONS	for paint and reco material safety da		nners see s	afety sheets	1430, 1431	and relevant
	this is a solvent be spray mist or vape or eyes	•				
ADDITIONAL DATA Film thickness and spreading rate						
	theoretical sprea	ding rate m <sup>2</sup> /	I 11.4	7.6	5	.7
	dft in µm		50	75	1	00
	max. dft when bru	ishing:				50 µm
	Overcoating tabl	e for Sigma	Cover 280 f	or dft up to	100 µm	
with various two pack epoxy- and polyurethane coatings	substrate temperature	5°C	10°C	20°C	30°C	40°C
	minimum interval	36 hours	16 hours	8 hours	6 hours	4 hours
	maximum interval when not exposed to sunshine	6 months	6 months	6 months	4 months	3 months
	maximum interval when exposed to	3 months	3 months	3 months	2 months	2 months

- surface should be dry and free from any contamination





direct sunshine

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### Overcoating table for SigmaCover 280 for dft up to 100 µm

with other types of paint like: most chlorinated rubber-, vinyl-, alkyd coatings

substrate temperature	5°C	10°C	20°C	30°C	40°C
minimum interval	16 hours	10 hours	5 hours	3 hours	2 hours
maximum interval	21 days	21 days	10 days	7 days	4 days

- surface should be dry and free from any contamination

- glossy finishes require a corresponding undercoat

### Curing table for dft up to 100 µm

substrate temperature	touch dry	dry to handle	full cure
5°C	8 hours	13 hours	21 days
10°C	4 hours	6 hours	14 days
20°C	2 hours	2.5 hours	7 days
30°C	1 hour	1.5 hour	5 days
40°C	45 min.	1 hour	3 days

 adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)

### Pot life (at application viscosity)

15°C	10 hours
20°C	8 hours
30°C	5 hours
35°C	4 hours

### 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.





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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 Directives for ventilation practice Cleaning of steel and removal of rust PPG Protective & Marine Coatings Ballast Ta Building	see information sheet 1431 see information sheet 1433 see information sheet 1434 see information sheet 1490 nk Working Procedure New

#### 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.

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

	PDS	7417
179083	yellow/green	4009002200 (144497 base, 142014 hardener)
179085	redbrown	6137002200 (144493 base, 142014 hardener)





PPG Protective & Marine Coatings