	4 pages	September 2009 Revision of September 2005	
DESCRIPTION	two component high build, vinyl modified polyamine cured coal tar epoxy coating		
PRINCIPAL CHARACTERISTICS	 to be used as second coat on top of SigmaCov formulated as an adhesion coat for antifouling good resistance against chemically polluted was can be applied and cures at low temperatures -5°C, provided the substrate is free from ice) good abrasion resistance tolerates a dft up to 250 µm at overlaps without 	paints ater (application possible down to	
COLOURS AND GLOSS	black - eggshell		
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US gal) (data for mixed product)		
Mass density Volume solids VOC (supplied) Recommended dry film thickness Theoretical spreading rate Touch dry after Overcoating interval Full cure after	1.4 g/cm ³ 65 ± 2% max. 260 g/kg (Directive 1999/13/EC, SED) max. 366 g/l (approx. 3.1 lb/gal) 75 - 150 μm (see system sheets) 8.7 m²/l for 75 μm, 4.3 m²/l for 150 μm * 3 hours min. 6 hours * max. 5 days * 7 days *		
Shelf life (cool and dry place)	(data for components) at least 12 months * see additional data		
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	 previous coat; dry and free from any contamination application and curing should take place at a temperature of at least 5°C in order to obtain the maximum resistance against chemical and mechanical influences application at temperatures down to -5°C is possible but curing to hardness takes longer and complete cure will be reached when temperature increases substrate temperature should be at least 3°C above dew point 		
SYSTEM SPECIFICATION	anticorrosive systems for underwater and boottop	system sheet: 3101	

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INSTRUCTIONS FOR USE	mixing ratio by volume: base to l	nardener 89 :	11	
	 the temperature of the mixed 15°C, otherwise extra solven too much solvent results in re thinner should be added afte 	t may be requeduced sag re	iired to obtain a sistance and s	application viscosity
Induction time	allow induction time before use 15°C - 30 min. 20°C - 15 min. 25°C - 10 min. for application temperatures belo	ow 5°C: 60 mi	n.	
Pot life	6 hours at 20°C * * see additional data			
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure BRUSH/ROLLER	Thinner 91-79 0 - 10%, depending on required approx. 0.48 - 0.58 mm (= 0.019 15 MPa (= approx. 150 bar; 213 for touch up and spot repair only	- 0.023 in) 0 p.s.i.)	l application co	onditions
Recommended thinner Volume of thinner	Thinner 91-79 0 - 5%			
CLEANING SOLVENT	Thinner 90-53			
SAFETY PRECAUTIONS	for paint and recommended thinners see safety sheets 1430, 1431 and relevan material safety data sheets			, 1431 and relevant
	this is a solvent borne paint and spray mist or vapour as well as o or eyes			
ADDITIONAL DATA	Film thickness and spreading	rate		
	theoretical spreading rate m²/l	8.7	5.2	4.3
	dft in µm	75	125	150
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max. dft when brushing:

75 µm





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Overcoating table with most antifoulings for dft up to 150 μm

substrate temperature	-5°C	5°C	10°C	20°C	30°C	40°C
minimum	48	18	12	6	4	3
interval	hours	hours	hours	hours	hours	hours
maximum	14	10	5	2	1	12
interval	days	days	days	days	day	hours

- when overcoated with antifoulings tar bleeding will occur

- adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)
- when application has to be executed at low temperature care should be taken that the temperature of the mixed paint is at least 15°C, the induction time should be increased to at least one hour

Curing table for dft up to 150 µm

substrate temperature	dry to handle	initial cure before exposure to sea water	full cure
5°C	48 hours	96 hours	
10°C	30 hours	48 hours	15 days
15°C	24 hours	30 hours	10 days
20°C	16 hours	24 hours	7 days
30°C	8 hours	18 hours	3 days
40°C	5 hours	12 hours	2 days

- exposure to sea water is permitted after the initial curing time provided the sea water temperature is 10°C or more
- if sea water temperature is 5°C the initial curing time should be extended by 50%
- if SigmaCover 510 has been applied by means of hot airless spray, exposure to sea water is permitted after an initial cure of 4 hours
- the mechanical strength, when cured at low temperature, is low initially, but will increase quickly when exposed to sea water
- adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)





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Pot life (at application viscosity)

15°C	8 hours
20°C	6 hours
25°C	5 hours
30°C	4 hours
35°C	2 hours

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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 Explosion hazard - toxic hazard Safe working in confined spaces Directives for ventilation practice	see information sheet 1411 see information sheet 1430 see information sheet 1431 see information sheet 1433 see information sheet 1434	

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.

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