SIGMACOVER 256



March 2010 4 pages Revision of November 2009 DESCRIPTION two component high build polyamide cured recoatable zinc phosphate epoxy primer **PRINCIPAL CHARACTERISTICS** general purpose epoxy primer or build coat for steel and concrete structures - suitable for atmospheric and marine conditions - can be recoated with various two component and conventional coatings even after long weathering periods lead- and chromate free - excellent rust preventing properties in industrial or coastal atmospheres tough, with long term flexibility cures even at temperatures down to -10°C good adhesion to steel, galvanised steel and aged epoxy coatings - easy application, both by airless spray and brush - can be used as epoxy primer/finish (for dry internal areas) **COLOURS AND GLOSS** cream, pink (other colours on request) - eggshell **BASIC DATA AT 20°C** $(1 \text{ g/cm}^3 = 8.25 \text{ lb/US gal}; 1 \text{ m}^2/\text{l} = 40.7 \text{ ft}^2/\text{US gal})$ (data for mixed product) Mass density 1.4 g/cm³ Volume solids $63 \pm 2\%$ max. 245 g/kg (Directive 1999/13/EC, SED) VOC (supplied) max. 338 g/l (approx. 2.8 lb/gal) 75 - 150 µm depending on system Recommended dry film thickness Theoretical spreading rate 6.3 m²/l for 100 µm * Touch dry after 2 hours Overcoating interval min. 3 hours * max. unlimited Full cure after 4 days * (data for components) Shelf life (cool and dry place) at least 12 months * see additional data steel; blast cleaned to ISO-Sa2½, blasting profile 40 - 70 μm RECOMMENDED _ SUBSTRATE CONDITIONS shop primed steel; pretreated to SPSS-Pt3 AND TEMPERATURES galvanised steel; free from any contamination and sweep blasted till an even flat appearance (only for internal dry exposure conditions) aged suitable coatings; dry and free from any contamination and sufficiently roughened

- during application and curing a substrate temperature down to -10°C is acceptable provided substrate is dry and free from ice
- substrate temperature at least 3°C above dew point
- maximum relative humidity during application and curing is 95%





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INSTRUCTIONS FOR USE	mixing ratio by volume: base to h	ardener 82 : 18	8	
	 the temperature of the mixed 15°C, otherwise extra solvent too much solvent results in re thinner should be added after 	t may be requir duced sag resi	ed to obtain a istance and sl	application viscosity
Induction time	20 minutes if applied at temperatures below 10°C none above 10°C			
Pot life	8 hours at 20°C * * see additional data			
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 91-92 5 - 10%, depending on required 1 approx. 0.48 mm (= 0.019 in) 15 MPa (= approx. 150 bar; 2130		application co	nditions
AIR SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 91-92 10 - 15%, depending on required thickness and application conditions 1.5 - 3 mm 0.3 - 0.4 MPa (= approx. 3 - 4 bar; 43 - 57 p.s.i.)			
BRUSH/ROLLER Recommended thinner Volume of thinner	Thinner 91-92 0 - 5%			
CLEANING SOLVENT	Thinner 90-53			
SAFETY PRECAUTIONS	for paint and recommended thinners see safety sheets 1430, 1431 and relevant material safety data sheets			
	this is a solvent borne paint and spray mist or vapour as well as c or eyes			
ADDITIONAL DATA	Film thickness and spreading rate			
	theoretical spreading rate m²/l	8.4	6.3	4.2
	dft in µm	75	100	150





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Overcoating table for dft up to 100 µm

for SigmaCover 256, SigmaCover 435, SigmaCover 456	substrate temperature	-5°C	5°C	10°C	20°C	30°C	40°C	
	minimum interval	36 hours	10 hours	4 hours	3 hours	2 hours	2 hours	
	maximum interval	no limitation, provided that the surface is free from any contamination						

Overcoating table for dft up to 100 μm

for SigmaDur 520, SigmaDur 550, various chlorinated rubbers, vinyls, acrylates and alkyd paints

	substrate temperature	-5°C	5°C	10°C *	20°C	30°C	40°C
yls,							
	minimum interval	72 hours	24 hours	16 hours	8 hours	5 hours	3 hours
	maximum interval	no limitation, provided that the surface is free from any contamination			n any		

- finishes require a corresponding undercoat

- SigmaCover 256 should not be overcoated with coal tar epoxy coatings

Curing table for dft up to 100 µm

substrate temperature	dry to handle	full cure
-10°C	24 - 48 hours	20 days
-5°C	24 - 30 hours	14 days
0°C	18 - 24 hours	10 days
5°C	18 hours	8 days
10°C	12 hours	6 days
15°C	8 hours	5 days
20°C	6 hours	4 days
30°C	4 hours	3 days
40°C	3 hours	2 days

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





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	For me (at application viscosity)	
	10°C	16 hours
	15°C	10 hours
	20°C	8 hours
	30°C	5 hours
	35°C	4 hours
Worldwide availability	the same product on a worldwide ba	Protective & Marine Coatings to supply asis, slight modification of the product is h local or national rules/circumstances. native product data sheet is used.
REFERENCES	Explanation to product data sheets Safety indications Safety in confined spaces and heal Explosion hazard - toxic hazard Safe working in confined spaces Directives for ventilation practice Cleaning of steel and removal of rus	see information sheet 1431 see information sheet 1433 see information sheet 1434

Pot life (at application viscosity)

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	7412
179630	cream	3012002200
179635	pink	6007002200





