SIGMACOVER 410 LT

	4 pages	August 2009 Revision of July 2009			
DESCRIPTION	two component high solids, high build, polyamide cured epoxy coating				
PRINCIPAL CHARACTERISTICS	 general purpose epoxy build coat in protective coating systems for steel a concrete structures exposed to atmospheric land or marine conditions excellent durability can be recoated with various two component and conventional coatings even after long weathering periods easy application by airless spray good drying and curing properties at low substrate temperature (down to -5°C) 				
COLOURS AND GLOSS	MIO and a selected range of colours - flat				
BASIC DATA AT 10°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	1.5 - 1.9 g/cm ³ , depending on colour 80 \pm 2% max. 126 g/kg (Directive 1999/13/EC, SED) max. 240 g/l (approx. 2.0 lb/gal) 75 - 200 µm depending on system 10.6 m ² /l for 75 µm * 4 hours * min. 12 hours * max. 6 months * 7 days *				
	(data for components)				
Shelf life (cool and dry place)	at least 12 months * see additional data				
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	 previous suitable primer; dry and free from any co and sufficiently roughened if necessary when applied to zinc silicate, a mist coat and full of substrate temperature should be above -5°C durin and at least 3°C above dew point and free from ic during application and curing a substrate temperat possible, but curing to hardness takes longer and be reached when temperature increases 	coat technique is required ng application and curing and any contamination ture down to -5°C is			





DATA

PPG Protective & Marine Coatings

be reached when temperature increases

SIGMACOVER 410 LT

August 2009

DATA

INSTRUCTIONS FOR USE	mixing ratio by volume: base to hardener 80 : 20			
	 the temperature of the mixed I 10°C, otherwise extra solvent too much solvent results in red thinner should be added after 	may be require duced sag resis	d to obtain app stance and slov	olication viscosity
Induction time	none			
Pot life	10 hours at 10°C * * see additional data			
AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 91-92 0 - 10%, 30 - 40% when mist coa approx. 0.45 - 0.53 mm (= 0.018 - 20 - 25 MPa (= 200 - 250 bar; 280	- 0.021 in)	1	
BRUSH/ROLLER				
Recommended thinner Volume of thinner	 Thinner 91-92 0 - 5% Application by brush may show brush marking, due to the thixatropic nature of the paint and is most suitable to small areas, tight angle areas or for stripe coating or touch up. Application by roller will leave roller marking and is suitable for minimum dft requirements only. A roller suitable for epoxy application only must be used. 			
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 care should spray mist or vapour as well as contact betw or eyes				
ADDITIONAL DATA	TONAL DATA Film thickness and spreading rate			
	theoretical spreading rate m²/l	10.6	5.3	4.0
	dft in µm	75	150	200





SIGMACOVER 410 LT

August 2009

Overcoating table for SigmaCover 410 LT for dft up to 200 µm

for various two pack epoxy- or polyurethane paint

substrate temperature	-5°C	0°C	5°C	10°C	15°C
minimum interval	48 hours	24 hours	16 hours	12 hours	8 hours
maximum interval *					

This product has an unlimited maximum overcoating interval provided the surface is free from chalking and other contamination. In cases of exposure to direct sunlight or when the surface is contaminated it is recommended that the surface be cleaned and roughened to ensure good adhesion of the subsequent coating.

The optimum intercoat adhesion is obtained when the subsequent coating is applied before the full cure time of the previous coating has elapsed.

Curing table for dft up to 200 µm

substrate temperature	touch dry	dry to handle	full cure
-5°C	20 hours	24 hours	20 days
0°C	12 hours	16 hours	14 days
5°C	6 hours	12 hours	10 days
10°C	4 hours	8 hours	7 days
15°C	3 hours	5 hours	5 days

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

Pot life (at application viscosity)

page 3/4

10°C	10 hours	
15°C	6 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.





August 2009

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

DATA

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.

6833

PDS



