

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 and 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 COLOURS AND GLOSS MIO and a selected range of colours - flat **BASIC DATA AT 20°C** $(1 \text{ g/cm}^3 = 8.25 \text{ lb/US gal}; 1 \text{ m}^2/\text{I} = 40.7 \text{ ft}^2/\text{US gal})$ (data for mixed product) Mass density 1.5 - 1.9 g/cm³, depending on colour Volume solids $80 \pm 2\%$ VOC (supplied) max. 126 g/kg (Directive 1999/13/EC, SED) max. 240 g/l (approx. 2.0 lb/gal) Recommended dry film thickness 75 - 200 µm depending on system Theoretical spreading rate 10.6 m²/l for 75 µm * Touch dry after 3 hours * Overcoating interval min. 10 hours * max. 6 months * Full cure after 7 days * (data for components) Shelf life (cool and dry place) at least 12 months * see additional data RECOMMENDED previous suitable primer; dry and free from any contamination and zinc salts, SUBSTRATE CONDITIONS and sufficiently roughened if necessary AND TEMPERATURES when applied to zinc silicate, a mist coat and full coat technique is required substrate temperature should be at least 5°C and at least 3°C above dew point during application and curing **INSTRUCTIONS FOR USE** mixing ratio by volume: base to hardener 80 : 20 the temperature of the mixed base and hardener should preferably be above 15°C, otherwise extra solvent may be required to obtain application viscosity too much solvent results in reduced sag resistance and slower cure - thinner should be added after mixing the components Induction time none Pot life 6 hours at 20°C * * see additional data

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AIRLESS SPRAY Recommended thinner Volume of thinner Nozzle orifice Nozzle pressure	Thinner 91-92 0 - 10%, 30 - 40% when mist coat applied approx. 0.45 - 0.53 mm (= 0.018 - 0.021 in) 20 - 25 MPa (= 200 - 250 bar; 2800 - 3500 p.s.i.)				
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 pair spray mist or vapour as we or eyes				
ADDITIONAL DATA	Film thickness and spreading rate				
	theoretical spreading rate	m²/l 10.6	5.3		4.0
	dft in µm	75	150		200
	Overcoating table for Sig	jmaCover 410	for dft up to	o 200 µm	
	substrate 5°C temperature	10°C	20°C	30°C	40°C
for various two pack epoxy- or polyurethane paint	minimum 36 hou interval	rs 24 hours	8 hours	6 hours	4 hours
	maximum interval *				
	 * This product has an un surface is free from cha In cases of exposure to is recommended that th 	alking and other direct sunlight	contaminat	on. surface is	contaminated it

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.





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Curing table for dft up to 200 µm

substrate temperature	touch dry	dry to handle	full cure
5°C	12 hours	30 hours	20 days
10°C	6 hours	24 hours	14 days
15°C	4 hours	10 hours	10 days
20°C	3 hours	8 hours	7 days
30°C	2 hours	6 hours	5 days
40°C	1.5 hour	4 hours	3 days

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

Pot life (at application viscosity)

10°C	12 hours	
15°C	10 hours	
20°C	6 hours	
25°C	4 hours	
30°C	3 hours	
40°C	2 hours	

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







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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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