

SIGMACAP PRICOAT 180

3 pages

Jan 2010
Revision of August 2009

DESCRIPTION	two component high build polyamide cured epoxy coating pigmented with micaceous iron oxide
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - developed as an epoxy miocoat for steel and concrete structures in atmospheric exposure conditions as a primer, sealer or coating - easy to apply with relative long potlife at elevated temperature - resistance to maximum dry heat exposure temperature of 200°C - resistant to splash and spillage of mild chemicals and solvents - improved overcoating properties due to mio pigmentation
COLOURS AND GLOSS	greenish grey, redbrown - low metallic sheen
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US gal)
Mass density	approx. 1.9 g/cm ³
Volume solids	approx. 80% by volume
Recommended dry film thickness	40 - 150 µm * depending on system
Theoretical spreading rate	8.0 m ² /ltr for 100 µm
Touch dry after	approx. 3 hours
Overcoating interval	min. 10 hours* max. 3 months
Shelf life (cool and dry place)	at least 12 months * see additional information
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul style="list-style-type: none"> - concrete; dry and free from any contamination - previously painted substrate; epoxy primer or build coat or zinc silicate within overcoating interval and free from any contamination - substrate temperature should be above 5°C and at least 3°C above dew point
INSTRUCTIONS FOR USE	<p>mixing ratio by volume: base to hardener 80 : 20</p> <ul style="list-style-type: none"> - stir well before use - the temperature of the paint should preferably be above 15°C, otherwise extra thinner may be required to obtain application viscosity - too much solvent results in reduced sag resistance - thinner should be added after mixing the components
AIRLESS SPRAY	
Recommended thinner	Sigma thinner 91-92
Volume of thinner	5 - 10%
Nozzle orifice	approx. 0.48 mm (0.019 inch)
Nozzle pressure	150 bar (approx. 2100 p.s.i.)
AIR SPRAY	
Recommended thinner	Sigma thinner 91-92
Volume of thinner	5 - 10%
Nozzle orifice approx.	1.5 - 3.0 mm
Nozzle pressure	3 - 4 bar (approx. 43 - 57 p.s.i.)

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BRUSH/ROLLER

Recommended thinner Sigma thinner 91-92
Volume of thinner 0- 5%

CLEANING SOLVENT

Sigma 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 based paint and care should be taken to avoid inhalation of spray mist or vapour as well as contact between the wet paint and exposed skin or eyes

ADDITIONAL DATA

Film thickness and spreading rate

theoretical spreading rate m ² /l	10.6	8.0	5.3
dft in µm	75	100	150

Overcoating table

paint type:	substrate temperature	20°C	30°C	40°C
Sigma epoxy range	minimum interval	10 hours	8 hours	6 hours
	maximum interval	3 months	2 months	1 month
Sigma polyurethane range	minimum interval	24 hours	16 hours	12 hours
	maximum interval	3 months	2 months	1 month

Curing table

substrate temperature	dry to handle	full cure
20 °C	10 hours	4 days
30 °C	7 hours	3 days
40 °C	5 hours	2 days

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

Pot life (at application viscosity)

paint temperature	pot life
20 °C	6 hours
30 °C	3 hours
40 °C	2 hours

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Worldwide availability

Whilst it is always the aim of Sigma 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.

This product is not part of the Sigma Coatings global range and availability is depending on location.

REFERENCES

Explanation to product data sheets	see information sheet 1411
Safety indications	see information sheet 1430
Safety in confined spaces and health safety	
Explosion hazard - toxic hazard	see information sheet 1431
Safe working in confined spaces	see information sheet 1433
Directives for ventilation practice	see information sheet 1434
Cleaning of steel and removal of rust	see information sheet 1490

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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Sigma Paints Saudi Arabia Ltd