

SIGMATHERM 500

2 pages

October 2009
Revision of September 2005

DESCRIPTION	heat resistant modified alkyd aluminium coating
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> - to be used for the internal and external protection of steel surfaces - heat resistant up to 500°C; a minimum of 200°C is necessary to fuse the aluminium coating - a minimum drying time of 3 days at 20°C should be allowed before exposure to heat - application by spray improves the appearance
COLOURS AND GLOSS	aluminium - 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)
Mass density	1.1 g/cm ³
Volume solids	32 ± 2%
VOC (supplied)	max. 561 g/kg (Directive 1999/13/EC, SED) max. 600 g/l (approx. 5.0 lb/gal)
Recommended dry film thickness	25 µm
Theoretical spreading rate	12.8 m ² /l for 25 µm
Touch dry after	3 hours at 5 - 10°C, 1 hour at 20°C
Overcoating interval	min. 48 hours at 5 - 10°C, 24 hours at 20°C max. no limitations
Shelf life (cool and dry place)	at least 12 months, longer storage period may affect the brilliancy
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	- steel; blast cleaned to ISO-Sa2½ or ISO-Sa3, blasting profile 40 - 70 µm
SYSTEM SPECIFICATION	for heat resistant systems - see system sheet 3140
INSTRUCTIONS FOR USE	<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 - adequate ventilation must be maintained during application and curing (please refer to sheets 1433 and 1434)
AIRLESS SPRAY	
Recommended thinner	no thinner should be added
Nozzle orifice	approx. 0.38 mm (= 0.015 in)
Nozzle pressure	8 - 12 MPa (= approx. 80 - 120 bar; 1140 - 1700 p.s.i.)
AIR SPRAY	
Recommended thinner	no thinner should be added
Nozzle orifice	2 - 3 mm
Nozzle pressure	0.3 - 0.4 MPa (= approx. 3 - 4 bar; 43 - 57 p.s.i.)

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BRUSH/ROLLER

Recommended thinner no thinner should be added

CLEANING SOLVENT

Thinner 20-05

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

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	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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136661	aluminium	9000002200