SIGMATHERM™ 500

OVERVIEW

Place of origin: Indonesia
Gloss level: Eggshell
Dry to touch: 1 hours
Number of components: 1

Color: Aluminum

PRODUCT DETAIL

DESCRIPTION

Heat resistant modified alkyd aluminium coating

PRINCIPAL CHARACTERISTICS

- To be used for the internal and external protection of steel surfaces
- Heat-resistant up to 500°C (930°F); a minimum of 200°C (390°F) is necessary to fuse the aluminum coating
- A minimum drying time of 3 days at 20°C (68°F) should be allowed before exposure to heat
- Application by spray improves the appearance

COLOR AND GLOSS LEVEL

- Aluminum
- Eggshell

BASIC DATA AT 20°C (68°F)

Data for product		
Number of components	One	
Mass density	1.1 kg/l (9.2 lb/US gal)	
Volume solids	32 ± 2%	
VOC (Supplied)	Directive 1999/13/EC, SED: max. 561.0 g/kg UK PG 6/23(92) Appendix 3: max. 600.0 g/l (approx. 5.0 lb/US gal)	
Recommended dry film thickness	25 μm (1.0 mils)	
Theoretical spreading rate	12.8 m 2 /l for 25 μ m (513 ft 2 /US gal for 1.0 mils)	
Dry to touch	1 hour	
Overcoating Interval	Minimum: 24 hours Maximum: Unlimited	
Shelf life	At least 24 months when stored cool and dry	

Notes:

- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

• Steel; blast cleaned to ISO-Sa2½ or ISO-Sa3, blasting profile $40-70~\mu m$ (1.6 – 2.8 mils)

Substrate temperature and application conditions

• Substrate temperature during application should be at least 3°C (5°F) above dew point

SYSTEM SPECIFICATION

HEATRESISTANT SYSTEMS—SYSTEM SHEET 3140

INSTRUCTIONS FOR USE

- · Stir well before use
- The temperature of the paint should preferably be above 15°C (59°F), otherwise extra thinner may be required to obtain application viscosity
- Adding too much thinner results in reduced sag resistance
- Adequate ventilation must be maintained during application and curing (please refer to INFORMATION SHEETS 1433 and 1434)

Air spray

Recommended thinner: No thinner should be added **Nozzle orifice:** 2.0 – 3.0 mm (approx. 0.079 – 0.110 in) **Nozzle pressure:** 0.3 - 0.4 MPa (approx. 3 - 4 bar; 44 - 58 p.s.i.)

Airless spray

Recommended thinner: No thinner should be added

Nozzle orifice: Approx. 0.38 mm (0.015 in)

Nozzle pressure: 8.0 - 12.0 MPa (approx. 80 - 120 bar; 1161 - 1741 p.s.i.)

Brush/roller

Recommended thinner: No thinner should be added

Cleaning solvent: THINNER 20-05

ADDITIONAL DATA

Overcoating interval for DFT up to 25 μm (1.0 mils)					
Overcoating with	Interval	5°C (41°F)	20°C (68°F)	30°C (86°F)	
itself	Minimum	48 hours	24 hours	16 hours	
	Maximum	Unlimited	Unlimited	Unlimited	

Curing time for DFT up to 25 μm (1.0 mils)				
Substrate temperature	Dry to touch			

5°C (41°F)	3 hours
20°C (68°F)	1 hour
30°C (86°F)	30 minutes

SAFETY PRECAUTIONS

- For paint and recommended thinners see INFORMATION 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 vapor, as well as contact between the wet paint and exposed skin or eyes

WORLDWIDE AVAILABILITY

It is always the aim of PPG Protective and Marine Coatings to supply the same product on a worldwide basis. However, 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.