

SIGMATHERM™ 175

DESCRIPTION

Heat-resistant modified alkyd aluminum finish

PRINCIPAL CHARACTERISTICS

- Heat-resistant up to 175°C (350°F)
- High-brilliancy
- Spray application improves the appearance
- A minimum drying time of 3 days at 20°C (68°F) should be allowed before exposure to heat

COLOR AND GLOSS LEVEL

- Aluminum
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	One
Mass density	1.0 kg/l (8.3 lb/US gal)
Volume solids	47 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 411.0 g/kg max. 417.0 g/l (approx. 3.5 lb/US gal)
Recommended dry film thickness	25 µm (1.0 mils) per coat
Theoretical spreading rate	18.8 m ² /l for 25 µm (754 ft ² /US gal for 1.0 mils)
Dry to touch	1 hour
Overcoating Interval	Minimum: 16 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

- Previous coat must be dry and free from any contamination

Substrate temperature and application conditions

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

SIGMATHERM™ 175

SYSTEM SPECIFICATION

- HEAT RESISTANT SYSTEMS – SYSTEM SHEET 3140
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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)
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Air spray

Recommended thinner

THINNER 20-05

Volume of thinner

0 - 3%, depending on required thickness and application conditions

Nozzle orifice

1.8 – 2.0 mm (approx. 0.070 – 0.079 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. 0.33 – 0.38 mm (0.013 – 0.015 in)

Nozzle pressure

12.0 - 15.0 MPa (approx. 120 - 150 bar; 1741 - 2176 p.s.i.)

Brush/roller

Recommended thinner

No thinner should be added

SIGMATHERM™ 175

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)	10°C (50°F)	20°C (68°F)
itself	Minimum	36 hours	36 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
10°C (50°F)	3 hours
20°C (68°F)	1 hour

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.

REFERENCES

• CONVERSION TABLES	INFORMATION SHEET	1410
• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• SAFE WORKING IN CONFINED SPACES	INFORMATION SHEET	1433
• DIRECTIVES FOR VENTILATION PRACTICE	INFORMATION SHEET	1434
• CLEANING OF STEEL AND REMOVAL OF RUST	INFORMATION SHEET	1490
• SPECIFICATION FOR MINERAL ABRASIVES	INFORMATION SHEET	1491
• RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650



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SIGMATHERM™ 175

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