

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 2010/75/EU, SED: max. 411.0 g/kg max. 417.0 g/l (approx. 3.5 lb/US gal) China GB 38469-2019 (tested) 419.0 g/l (approx. 3.5 lb/gal)
Recommended dry film thickness	25 µm (1.0 mils) per coat
Theoretical spreading rate	18.8 m²/l for 25 µm (754 ft²/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



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SYSTEM SPECIFICATION

Uninsulated steel

- SIGMARINE 24: 35 µm (1.4 mils)
 - SIGMATHERM 175: 25 µm (1.0 mil)
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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
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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

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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

Note: Adequate ventilation must be maintained during application and curing

SAFETY PRECAUTIONS

- See Safety Data Sheet and product label for complete safety and precaution requirements
- 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

- EXPLANATION TO PRODUCT DATA SHEETS
- INFORMATION SHEET
- 1411

WARRANTY

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