

# 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)
Recommended dry film thickness	25 µm (1.0 mils) per coat
Theoretical spreading rate	18.8 m <sup>2</sup> /l for 25 µm (754 ft <sup>2</sup> /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 (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.)

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### 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.)

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### Brush/roller

#### **Recommended thinner**

No thinner should be added

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# 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

# SIGMATHERM™ 175

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