

PPG SIGMATHERM™ 250

DESCRIPTION

Heat-resistant silicone/acrylic finish

PRINCIPAL CHARACTERISTICS

- Excellent resistance against weathering
- A minimum drying time of 3 days at 20°C (68°F) should be allowed before exposure to heat
- Dry heat resistant up to 250°C (482°F)
- To be used for the internal and external protection of steel surfaces
- Widely compatible with inorganic zinc primers and phenolic epoxies

COLOR AND GLOSS LEVEL

- White, aluminum (other colors available on request)
- Matt

BASIC DATA AT 20°C (68°F)

Data for product	
Number of components	One
Mass density	White: 1.3 kg/l (10.8 lb/US gal) Aluminum: 1.2 kg/l (10.0 lb/US gal)
Volume solids	35 ± 2%
VOC (Supplied)	max. 597.0 g/l (approx. 5.0 lb/US gal)
Recommended dry film thickness	25 - 30 µm (1.0 - 1.2 mils)
Theoretical spreading rate	14.0 m ² /l (561 ft ² /US gal) when applied undiluted
Dry to touch	1 hour
Overcoating Interval	Minimum: 18 hours Maximum: Unlimited
Shelf life	At least 24 months when stored cool and dry

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- Thermal aluminum sprayed steel or thermal zinc sprayed steel must be dry and free from any contamination
- Aged suitable coating 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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INSTRUCTIONS FOR USE

- By using a mist coat technique, it is possible to apply SIGMATHERM 250 on top of a zinc silicate primer
- Power agitate to uniform consistency

Air spray

Recommended thinner

No thinner should be added

Nozzle orifice

1.5 – 2.0 mm (approx. 0.060 – 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. 0.38 – 0.48 mm (0.015 – 0.019 in)

Nozzle pressure

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

Brush/roller

- Only for touch-up and spot repair

Cleaning solvent

- THINNER 21-06

ADDITIONAL DATA

Spreading rate and film thickness	
DFT	Theoretical spreading rate
25 µm (1.0 mils)	14.0 m ² /l (561 ft ² /US gal)
30 µm (1.2 mils)	11.7 m ² /l (468 ft ² /US gal)

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Overcoating interval for DFT up to 30 µm (1.2 mils)					
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	24 hours	18 hours	15 hours	10 hours
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited

Note:

- Surface should be dry and free from any contamination

Curing time for DFT up to 30 µm (1.2 mils)		
Substrate temperature	Dry to touch	Dry to handle
10°C (50°F)	1.5 hours	3 hours
20°C (68°F)	1 hour	2 hours
30°C (86°F)	45 minutes	1.5 hours
40°C (104°F)	30 minutes	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 & 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

- Information sheet | Explanation of product data sheets

WARRANTY

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