DESCRIPTION

One-component, heat-resistant, moisture-curing silicone aluminum

PRINCIPAL CHARACTERISTICS

- Dry heat resistance up to 600°C (1112°F)
- No heat cure necessary between coats
- To be used for the internal and external protection of steel surfaces
- Excellent resistance against weathering
- Also suitable on top of zinc silicate primer
- A minimum drying time of 3 days at 20°C (68°F) should be allowed before exposure to heat

COLOR AND GLOSS LEVEL

- Aluminum
- Low sheen

Note:

- Black color available in Asia

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	45 ± 2%
VOC (Supplied)	Directive 2010/75/EU, SED: max. 412.0 g/kg UK PG 6/23(92) Appendix 3: max. 498.0 g/l (approx. 4.2 lb/US gal)
Temperature resistance (Continuous)	To 600°C (1112°F)
Recommended dry film thickness	25 μm (1.0 mils)
Theoretical spreading rate	18.0 m²/l for 25 µm (722 ft²/US gal for 1.0 mils)
Dry to touch	45 minutes
Overcoating Interval	Minimum: 16 hours
Shelf life	At least 15 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 Sa 21/2 or SSPC-SP 10, blasting profile 25 50 μm (1.0 2.0 mils)
- · Suitable coating (zinc silicate primer) must be dry, free from any contamination and zinc salts
- Lightly abrasive blast in accordance with SSPC-SP 16 requirements or otherwise abrade the surface to ensure a uniform and dense surface profile of at least 25 µm (1.0 mil)

Note:

- The maximum continuous dry heat temperature when power tool treated surface (ISO-St3) is 400°C (752°F)

Substrate temperature and application conditions

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

SYSTEM SPECIFICATION

- Suitable Primers : PPG Ethyl Silicate Zinc Primers
- Do not use HI-TEMP 1027 or 222G as primer
- Direct to stainless steel with suitable surface treatment

INSTRUCTIONS FOR USE

- Power agitate to uniform consistency
- Application with airless equipment is possible, but be careful not to apply more than specified thickness
- When applying more than one coat, it is recommended that the total dry film thickness of SIGMATHERM 540 does not exceed 80 µm (3.1 mils)

<u>Air spray</u>

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.)

Brush/roller

For Roller application the best results will be obtained by using fine foam type rollers



Cleaning solvent

• THINNER 21-06

ADDITIONAL DATA

Overcoating interval for DFT up to 25 μm (1.0 mils)						
Overcoating with	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)	
itself	Minimum	24 hours	16 hours	12 hours	6 hours	
	Maximum	Unlimited	Unlimited	Unlimited	Unlimited	

Note:

- Surface should be dry and free from any contamination

Curing time for DFT up to 25 µm (1.0 mils)					
Substrate temperature	Dry to touch	Dry to handle			
10°C (50°F)	1 hour	5 hours			
20°C (68°F)	45 minutes	3.5 hours			
30°C (86°F)	30 minutes	2 hours			
40°C (104°F)	15 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
- Guide | PPG SIGMACARE PLUS | Online guide to maintenance at sea



WARRANTY

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