DESCRIPTION

Heat-resistant silicone/acrylic finish

PRINCIPAL CHARACTERISTICS

- Excellent resistance against weathering
- After a drying time of 3 days at 20°C (68°F), a minimum temperature of 200°C (390°F) for 2 hours is necessary to obtain sufficient mechanical strength
- Heat-resistant up to 350°C (660°F)
- To be used for the internal and external protection of steel surfaces
- Widely compatible with inorganic zinc primers

COLOR AND GLOSS LEVEL

- White, aluminum (other colors available on request)
- Semi-gloss

BASIC DATA AT 20°C (68°F)

Data for product			
Number of components	One		
Mass density	White: 1.2 kg/l (10.0 lb/US gal) Aluminum: 1.1 kg/l (9.2 lb/US gal)		
Volume solids	White: 39 ± 2% Aluminum: 42 ± 2%		
VOC (Supplied)	Directive 2010/75/EU, SED: max. 492 g/kg (white) Directive 2010/75/EU, SED: max. 491 g/kg (aluminum) max. 590.0 g/l (approx. 4.9 lb/gal) (white)		
Recommended dry film thickness	25 - 30 μm (1.0 - 1.2 mils)		
Theoretical spreading rate	White: 15.6 m²/l for 25 μm (626 ft²/US gal for 1.0 mils) Aluminum: 16.8 m²/l for 25 μm (674 ft²/US gal for 1.0 mils)		
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
- Suitable coating (zinc silicate primer) must be dry, free from any contamination and zinc salts
- Steel; blast cleaned to a minimum of ISO-Sa2½, blasting profile 40 70 μm (1.6 2.8 mils)

Substrate temperature and application conditions

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

INSTRUCTIONS FOR USE

- By using a mist coat technique, it is possible to apply SIGMATHERM 350 on top of a zinc silicate primer
- Power agitate to uniform consistency

<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.)

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 – White				
DFT Theoretical spreading rate				
25 µm (1.0 mils)	15.6 m²/l (626 ft²/US gal)			
30 µm (1.2 mils)	13.0 m²/l (521 ft²/US gal)			

Spreading rate and film thickness – Aluminum			
DFT Theoretical spreading ra			
25 µm (1.0 mils)	16.8 m²/l (674 ft²/US gal)		
30 µm (1.2 mils)	14.0 m²/l (561 ft²/US gal)		

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

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