### **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 and black
- Eggshell

Note: Supplied colors can differ per region, please contact your PPG representative for availability in your region

# 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) China GB 38469-2019 (tested) 463.0 g/l (approx. 3.9 lb/gal)		
Temperature resistance (Continuous)	To 600°C (1110°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:

Ref. 7564

- See ADDITIONAL DATA Overcoating intervals
- See ADDITIONAL DATA Curing time

Page 1/4



### RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

### **Substrate conditions**

- Steel; blast cleaned to ISO Sa 2½ 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

# 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)

## Air sprav

## **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

Ref. 7564 Page 2/4



### **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 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**

PPG warrants (i) its title to the product, (ii) that the quality of the product conforms to PPG's specifications for such product in effect at the time of manufacture and (iii) that the product shall be delivered free of the rightful claim of any third person for infringement of any U.S. patent covering the product. THESE ARE THE ONLY WARRANTIES THAT PPG MAKES AND ALL OTHER EXPRESS OR IMPLIED WARRANTIES, UNDER STATUTE OR ARISING OTHERWISE IN LAW, FROM A COURSE OF DEALING OR USAGE OF TRADE, INCLUDING WITHOUT LIMITATION, ANY OTHER WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR USE, ARE DISCLAIMED BY PPG. Any claim under this warranty must be made by Buyer to PPG in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life of the product, or one year from the date of the delivery of the product to the Buyer, whichever is earlier. Buyer's failure to notify PPG of such non-conformance as required herein shall bar Buyer from recovery under this warranty.



Ref. 7564 Page 3/4

### **LIMITATIONS OF LIABILITY**

IN NO EVENT WILL PPG BE LIABLE UNDER ANY THEORY OF RECOVERY (WHETHER BASED ON NEGLIGENCE OF ANY KIND, STRICT LIABILITY OR TORT) FOR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES IN ANY WAY RELATED TO, ARISING FROM, OR RESULTING FROM ANY USE MADE OF THE PRODUCT. The information in this sheet is intended for guidance only and is based upon laboratory tests that PPG believes to be reliable. PPG may modify the information contained herein at any time as a result of practical experience and continuous product development. All recommendations or suggestions relating to the use of the PPG product, whether in technical documentation, or in response to a specific inquiry, or otherwise, are based on data, which to the best of PPG's knowledge, is reliable. The product and related information is designed for users having the requisite knowledge and industrial skills in the industry and it is the end-user's responsibility to determine the suitability of the product for its own particular use and it shall be deemed that Buyer has done so, as its sole discretion and risk. PPG has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. Therefore, PPG does not accept any liability arising from any loss, injury or damage resulting from such use or the contents of this information (unless there are written agreements stating otherwise). Variations in the application environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results. This sheet supersedes all previous versions and it is the Buyer's responsibility to ensure that this information is current prior to using the product. Current sheets for all PPG Protective & Marine Coatings Products are maintained at www.ppgpmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG logo, and all other PPG marks are property of the PPG group of companies. All other third-party marks are property of their respective owners.



Ref. 7564 Page 4/4