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
- 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 1999/13/EC, SED: max. 492 g/kg (white) Directive 1999/13/EC, SED: max. 491 g/kg (aluminum) max. 590.0 g/l (approx. 4.9 lb/gal) (white) max. 540.0 g/l (approx. 4.5 lb/gal) (aluminum)	
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-Sa21/2, 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

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 – 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 rate	
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 (please refer to INFORMATION SHEETS 1433 and 1434)

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 -	INFORMATION SHEET	1431
	TOXIC HAZARD		
•	RELATIVE HUMIDITY – SUBSTRATE TEMPERATURE – AIR TEMPERATURE	INFORMATION SHEET	1650

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 ONES, 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 discovery of such non-conformance as required herein shall bar Buyer from recovery under this warranty.

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 sall 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.ppgmc.com. The English text of this sheet shall prevail over any translation thereof.

The PPG Logo, Bringing innovation to the surface., and all other trademarks herein are property of the PPG group of companies.

