

SIGMAGLIDE 790

4 pages

April 2009
Revision of February 2009

DESCRIPTION	two component silicone based tiecoat for fouling release system
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> – adhesion promoting coating for SigmaGlide Finishes to be applied on top of specific systems – for use at newbuilding or maintenance
COLOURS AND GLOSS	medium grey - semigloss
BASIC DATA AT 20°C	(1 g/cm ³ = 8.25 lb/US gal; 1 m ² /l = 40.7 ft ² /US gal) (data for mixed product)
Mass density	1.0 g/cm ³
Volume solids	79 ± 2%
VOC (supplied)	max. 180 g/kg (Directive 1999/13/EC, SED) max. 184 g/l (approx. 1.5 lb/gal)
Recommended dry film thickness	150 µm
Theoretical spreading rate	5.3 m ² /l for 150 µm
Touch dry after	30 minutes
Overcoating interval	min. 6 hours *
	(data for components)
Shelf life (cool and dry place)	at least 12 months * see additional data
RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES	<ul style="list-style-type: none"> – previous coat (specific epoxy); dry and free from any contamination and within overcoating time – substrate temperature should be above 10°C and at least 3°C above dew point – maximum relative humidity during application and curing is 85% – relative humidity should be above 40%
SYSTEM SPECIFICATION	<p>marine system sheet: 3127</p> <p>In order to achieve optimal performance from the SigmaGlide system, the individual SigmaGlide products must be applied in strict accordance with the minimum specified dry film thickness and also with the PPG Protective & Marine Coatings SigmaGlide General Working Procedure.</p> <p>Please consult PPG Protective & Marine Coatings for details of the application procedure which has been prepared to the best of our knowledge and in accordance with World-wide application best practices in order to ensure optimal workmanship and application results.</p>

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INSTRUCTIONS FOR USE

mixing ratio by volume: base to hardener 95 : 5

- open drum just before use
- stir base well before use for 5 minutes
- add hardener to the base and stir well again for at least 5 minutes
- no thinner should be added
- all equipment must be thoroughly cleaned prior to use and before re-use with other materials, to prevent contamination
- care must be taken to ensure that overspray of SigmaGlide 790 does not contaminate adjacent areas

Pot life

4 hours at 20°C *
* see additional data

AIRLESS SPRAY

Recommended thinner

no thinner should be added

Nozzle angle

from 35° to 60°, depending on nozzle orifice

Nozzle orifice

approx. 0.43 - 0.53 mm (= 0.017 - 0.021 in)

Nozzle pressure

13 - 19 MPa (= approx. 130 - 190 bar; 1850 - 2700 p.s.i.)

BRUSH/ROLLER

for small areas only (touch up and repair)

CLEANING SOLVENT

- Thinner 90-83 or 50/50 mixture of Thinner 21-06 and Thinner 50-02
- please note that used cleaning solvent must not be allowed to contaminate other paints

SAFETY PRECAUTIONS

for paint and recommended thinners see safety 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 vapour as well as contact between the wet paint and exposed skin or eyes

ADDITIONAL DATA

Overcoating table for SigmaShield 610 for dft up to 150 µm

with SigmaGlide 790

substrate temperature	10°C	20°C
minimum interval	16 hours	6 hours
maximum interval	7 days	5 days

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Overcoating table for SigmaShield 620 for dft up to 150 µm

with SigmaGlide 790

substrate temperature	20°C	30°C	40°C
minimum interval	6 hours	4 hours	2 hours
maximum interval	5 days	3 days	2 days

* at temperatures between 10°C and 20°C SigmaShield 610 should be specified; at temperatures above 20°C SigmaShield 620 should be specified

Overcoating table for SigmaGlide 790 for dft up to 150 µm

with SigmaGlide 790

substrate temperature	10°C	20°C	30°C	40°C
minimum interval	30 min.	15 min.	10 min.	10 min.
maximum interval	14 days	5 days	3 days	2 days

- surface should be dry and free from any contamination
- relative humidity should be above 40%

Overcoating table for SigmaGlide 790 for dft up to 150 µm

with SigmaGlide 890 or SigmaGlide 990

substrate temperature	10°C	20°C	30°C	40°C
minimum interval	24 hours	12 hours	10 hours	8 hours
maximum interval	14 days	5 days	3 days	2 days

- surface should be dry and free from any contamination
- relative humidity should be above 40%

Pot life (at application viscosity)

10°C	6 hours
20°C	4 hours
30°C	2 hours

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Worldwide availability

Whilst it is always the aim of PPG Protective & Marine Coatings to supply the same product on a worldwide basis, 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	see information sheet 1411
Safety indications	see information sheet 1430
Safety in confined spaces and health safety	
Explosion hazard - toxic hazard	see information sheet 1431
PPG Protective & Marine Coatings' General working procedure for application of SigmaGlide	

LIMITATION OF LIABILITY

The information in this data sheet is based upon laboratory tests we believe to be accurate and is intended for guidance only. All recommendations or suggestions relating to the use of the Sigma Coatings products made by PPG Protective & Marine Coatings, whether in technical documentation, or in response to a specific enquiry, or otherwise, are based on data which to the best of our knowledge are reliable. The products and information are designed for users having the requisite knowledge and industrial skills and it is the end-user's responsibility to determine the suitability of the product for its intended use.

PPG Protective & Marine Coatings has no control over either the quality or condition of the substrate, or the many factors affecting the use and application of the product. PPG Protective & Marine Coatings does therefore not accept any liability arising from loss, injury or damage resulting from such use or the contents of this data sheet (unless there are written agreements stating otherwise).

The data contained herein are liable to modification as a result of practical experience and continuous product development.

This data sheet replaces and annuls all previous issues and it is therefore the user's responsibility to ensure that this sheet is current prior to using the product.

The English text of this document shall prevail over any translation thereof.

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