

SIGMAGLIDE 990

3 pages

March 2010
Revision of April 2009

DESCRIPTION	two component high solids pure silicone finish for high performance fouling release system
PRINCIPAL CHARACTERISTICS	<ul style="list-style-type: none"> – non toxic fouling release coating – reduces the vessel's fuel consumption – wider application window and enhanced smoothness – contributes to minimize the environmental footprint – for use at newbuilding or maintenance
COLOURS AND GLOSS	darkred, darkblue (other colours on request) - gloss
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	1.1 g/cm ³
Volume solids	80 ± 2%
VOC (supplied)	max. 229 g/kg (Directive 1999/13/EC, SED) max. 248 g/l (approx. 2.1 lb/gal)
Recommended dry film thickness	180 µm
Theoretical spreading rate	4.4 m ² /l for 180 µm
Touch dry after	1 hour
Overcoating interval	min. 2 hours *
Refloating time	min. 20 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"> – for New Buildings or spot/full blast, SigmaGlide 990 should only be applied over SigmaGlide 790 – as a re-fresh coat, SigmaGlide 990 can be applied over itself or SigmaGlide 890 in line with PPG Protective & Marine Coatings SigmaGlide General Working Procedure – previous coat; dry and free from any contamination – substrate temperature should be above 5°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 80 : 20

- 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
- overspray on paint which will not be recoated with the SigmaGlide 990 should be avoided as much as possible

Induction time

none

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

15 - 20 MPa (= approx. 150 - 200 bar; 2130 - 2800 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 SigmaGlide 990 with itself at a dft up to 180 µm

substrate temperature	10°C	20°C	30°C	40°C
minimum interval	3 hours	2 hours	1 hour	1 hour
refloating	24 hours	20 hours	16 hours	12 hours

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

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Pot life

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

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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287085	darkblue	1000002200