SIGMAGLIDE® 990

DESCRIPTION

Two-component, high solids pure silicone finish for high performance fouling release system

PRINCIPAL CHARACTERISTICS

- 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 new-building or maintenance

COLOR AND GLOSS LEVEL

- Dark red, dark blue (other colors available on request)
- Gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.1 kg/l (9.2 lb/US gal)
Volume solids	80 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 229.0 g/kg max. 248.0 g/l (approx. 2.1 lb/US gal)
Recommended dry film thickness	180 µm (7.1 mils)
Theoretical spreading rate	4.4 m^2/l for 180 µm (181 ft^2/US gal for 7.1 mils)
Dry to touch	1 hour
Overcoating Interval	Minimum: 2 hours
Refloating time	Minimum: 20 hours
Shelf life	Base: at least 36 months when stored cool and dry Hardener: at least 36 months when stored cool and dry

Note: See ADDITIONAL DATA – Overcoating intervals

RECOMMENDED SUBSTRATE CONDITIONS AND TEMPERATURES

Substrate conditions

- For new-buildings or spot/full blast, SIGMAGLIDE 990 should only be applied over SIGMAGLIDE 790
- As a refresh coat, SIGMAGLIDE 990 can be applied over itself or SIGMAGLIDE 890 in line with PPG Protective & Marine Coatings SIGMAGLIDE General Working Procedure
- Previous coat must be dry and free from any contamination

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Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 5°C (41°F)
- Substrate temperature during application and curing should be at least 3°C (5°F) above dew point
- Relative humidity during application and curing should be between 40% and 85%

SYSTEM SPECIFICATION

- SIGMAGLIDE FOULING RELEASE COATING SYSTEM – SYSTEM SHEET 3127
- 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. 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 worldwide application best practices in order to ensure optimal workmanship and application results.

INSTRUCTIONS FOR USE

Mixing ratio by volume: base to hardener 80:20 (4:1)

- 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 (68°F)

Note: See ADDITIONAL DATA – Pot life

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Airless spray

Recommended thinner
No thinner should be added

Nozzle angle
35° – 60°, depending on nozzle orifice

Nozzle orifice
Approx. 0.43 – 0.53 mm (0.017 – 0.021 in)

Nozzle pressure
15.0 - 20.0 MPa (approx. 150 - 200 bar; 2176 - 2901 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

Note: please note that used cleaning solvent must not be allowed to contaminate other paints

ADDITIONAL DATA

Overcoating interval for DFT up to 180 µm (7.1 mils)					
Overcoating with...	**Interval**	**10°C (50°F)**	**20°C (68°F)**	**30°C (86°F)**	**40°C (104°F)**
itself	Minimum	3 hours	2 hours	1 hour	1 hour
	Refloating - Minimum	24 hours	20 hours	16 hours	12 hours

Notes:
- Surface should be dry and free from any contamination
- Relative humidity should be above 40%

Pot life (at application viscosity)	
Mixed product temperature	**Pot life**
10°C (50°F)	6 hours
20°C (68°F)	4 hours
30°C (86°F)	2 hours

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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

• EXPLANATION TO PRODUCT DATA SHEETS	INFORMATION SHEET	1411
• SAFETY INDICATIONS	INFORMATION SHEET	1430
• SAFETY IN CONFINED SPACES AND HEALTH SAFETY, EXPLOSION HAZARD – TOXIC HAZARD	INFORMATION SHEET	1431
• PPG PROTECTIVE & MARINE COATINGS' GENERAL WORKING PROCEDURES FOR APPLICATION OF SIGMAGLIDE®		

WARRANTY

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