

SIGMAGLIDE® 790

DESCRIPTION

Two-component, silicone-based tiecoat for fouling release system

PRINCIPAL CHARACTERISTICS

- Adhesion-promoting coating for SIGMAGLIDE finishes to be applied on top of specific systems
- For use at new-building or maintenance

COLOR AND GLOSS LEVEL

- Medium gray
- Semi-gloss

BASIC DATA AT 20°C (68°F)

Data for mixed product	
Number of components	Two
Mass density	1.0 kg/l (8.3 lb/US gal)
Volume solids	79 ± 2%
VOC (Supplied)	Directive 1999/13/EC, SED: max. 180.0 g/kg max. 184.0 g/l (approx. 1.5 lb/US gal)
Recommended dry film thickness	150 µm (6.0 mils)
Theoretical spreading rate	5.3 m ² /l for 150 µm (211 ft ² /US gal for 6.0 mils)
Dry to touch	30 minutes
Overcoating Interval	Minimum: 6 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

- Previous coat (specific epoxy) must be dry and free from any contamination and within overcoating time

Substrate temperature and application conditions

- Substrate temperature during application and curing should be above 10°C (50°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%

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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 95:5 (19:1)

- 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
- Care must be taken to ensure that overspray of SIGMAGLIDE 790 does not contaminate adjacent areas

Pot life

4 hours at 20°C (68°F)

Note: See ADDITIONAL DATA – Pot life

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

13.0 - 19.0 MPa (approx. 130 - 190 bar; 1886 - 2756 p.s.i.)

Brush/roller

- For small areas only (touch up and repair)

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Cleaning solvent

THINNER 90-83 or 50/50 mixture of THINNER 21-06 and THINNER 50-02

Note: The used cleaning solvent must not be allowed to contaminate other paints

ADDITIONAL DATA

Overcoating interval for SIGMASHIELD 610 for DFT up to 150 µm (6.0 mils)			
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)
SIGMAGLIDE 790	Minimum	16 hours	6 hours
	Maximum	7 days	5 days

Overcoating interval for SIGMASHIELD 620 for DFT up to 150 µm (6.0 mils)				
Overcoating with...	Interval	20°C (68°F)	30°C (86°F)	40°C (104°F)
itself	Minimum	6 hours	4 hours	2 hours
	Maximum	5 days	3 days	48 hours

Note: At temperatures between 10°C (50°C) and 20°C (68°F) SIGMASHIELD 610 should be specified. At temperatures above 20°C (68°C) SIGMASHIELD 620 should be specified.

Overcoating interval for SIGMAGLIDE 790 for DFT up to 150 µm (6.0 mils)					
Overcoating with...	Interval	10°C (50°F)	20°C (68°F)	30°C (86°F)	40°C (104°F)
SIGMAGLIDE 790	Minimum	30 minutes	15 minutes	10 minutes	10 minutes
	Maximum	14 days	5 days	3 days	48 hours
SIGMAGLIDE 890, SIGMAGLIDE 990 or SIGMAGLIDE 1290	Minimum	24 hours	12 hours	10 hours	8 hours
	Maximum	14 days	5 days	3 days	48 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

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|---|-------------------|------|
| • 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® | | |

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