

Hempasil 77300

Product characteristics

Description

Hempasil 77300 is a biocide free, two component, silicone fouling release coating with a high solids content. The product is based on silicone and cures after addition of Hempasil Crosslinker 97080. This product does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Antifouling Systems on Ships as adopted by IMO October 2001 (IMO document AFS/CONF/26).

Recommended use

As fouling release coating for static structures. As contrast markings, e.g. draft marks on Hempasil.

Features

- fouling release coating

Product safety

Flash point 28°C [82°F]

VOC content mixed product

Legislation	Value
EU	284 g/L [2.37 lb/US gal]
US (coatings)	284 g/L [2.37 lb/US gal]
US (regulatory)	284 g/L [2.37 lb/US gal]
China	284 g/L [2.37 lb/US gal]

According to specific legislation, see details in the Explanatory Notes available at Hempel website, hempel.com or at your local Hempel website.

Handling

Handle with care. Before and during use, observe safety labels on packaging and paint containers and follow all local and national safety regulations. Always consult Hempel's Safety Data Sheet for this product along with the Product Data Sheet.

For professional use only.

Product data

Product code

77300

Product components

Base 77309
Curing agent 97080

Standard shade / code

White 10000

Gloss

Glossy

Volume solids

70 ± 2%

Specific gravity

1.1 kg/L [10 lb/US gal]

Reference dry film thickness

50 micron [2.0 mils]

Surface preparation

New build:

- According to Hempel's Specification.

Consult Hempel's separate Surface Preparation Guidelines for more details.

Application

Mixing ratio

Base 77309 : Curing agent 97080
(7 : 1 by volume)

In general, thinning is not recommended. It is recommended to use fixed volumes/can size for multi-component products.

Thinner

Hempel's Thinner 08080

Hempasil 77300

Cleaner

Hempel's Thinner 08080

Pot life

Product temperature **20°C**
[68°F]

Pot life 2 hours

Application method

Tool **Application parameters**

Brush/Roller Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness.

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	50 micron [2.0 mils]	75 micron [3.0 mils]	50 micron [2.0 mils]
Wet film thickness	70 micron [3 mils]	110 micron [4 mils]	70 micron [3 mils]
Theoretical spreading rate	14 m ² /L [570 sq ft/US gal]	9.4 m ² /L [380 sq ft/US gal]	14 m ² /L [570 sq ft/US gal]

Application conditions

- Surface temperature must be above 0°C [32°F] during application and curing.
- To avoid condensation, apply on a clean and dry surface with a temperature that is at least 3°C [5°F] above the dew point.
- Temperature of product must be above 0°C [32°F] during application.

Relative Humidity:

- Relative humidity must be in the range 30-85% during curing.
- Relative humidity must be in the range 30-85% during application.

Drying and overcoating

Product compatibility

- Previous coat: According to Hempel's Specification.
- Subsequent coat: None.

Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]
Hard dry	min	120	60	30

Determined for dry film thickness 50 micron [2.0 mils] at standard conditions, see Hempel's Explanatory Notes for details.

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.

Other remarks

- Consult Hempel for information on the minimum undocking time.

Storage

Shelf life

Ambient temperature	25°C [77°F]	35°C [95°F]
Base	24 months	16 months
Curing agent	12 months	12 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Always check the best before date or expiry date on the label.

Storage conditions

- Must be stored under absolutely dry conditions, protect against seeping humidity.

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Additional documents

Additional information is available at the Hempel website hempel.com or at your local Hempel website:

- Explanatory Notes explaining the fields in this Product Data Sheet.
- Surface Preparation Guidelines.
- Application Guidelines for different application methods.

This Product Data Sheet ("PDS") relates to the supplied product ("Product") and is subject to updating from time-to-time. Accordingly, the buyer/applicator should have regard to the PDS supplied together with the relevant batch of the Product (and not an earlier version). In addition to the PDS, the buyer/applicator may receive some or all of the following specifications, statements and/or guidelines as listed below or as are available from the Hempel website under 'Products' at www.hempel.com (the "Additional documents"):

No.	Document description	Location/comments
1.	Technical Statement	One-off specific advice provided on request for specific projects
2.	Specification	Only issued for specific projects
3.	PDS	This document
4.	Explanatory Notes to the PDS	Available at www.hempel.com and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at www.hempel.com
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at www.hempel.com

In the event of a conflict of information between the PDS and the Additional documents, the order of priority of information shall be in the order as set out above. In such event you should also contact your representative at Hempel for clarification. Furthermore, the buyer/applicator must have full regard to the relevant Safety Data Sheet provided with each Product and which can also be downloaded from www.hempel.com.

Hempel shall not be liable for defects where the application of the Product has not been made fully in accordance with the recommendations and requirements set out in the relevant PDS and the Additional Documents. The information and terms of this disclaimer apply to this PDS, the Additional documents and any other documents supplied by Hempel in respect of the Product. In addition, the Product is supplied and all technical assistance is given subject to Hempel's General Conditions of Sale, Delivery and Service, unless otherwise expressly agreed in writing.