

Hempablue 87750

Product characteristics

Description

Hempablue 87750 is a fourth generation fouling release based on silicone hydrogel. Hempablue 87750 is biocide free, two component and high volume solids. The best-in-class fouling release coating contains an enhanced micro-layer of hydrogel that prevents fouling organisms from adhering firmly, while also providing self-cleaning properties. This results in a smooth, uniform, and repellent surface with unique anti-fouling characteristics.

Recommended use

Hempablue 87750 can be used in all global sailing patterns, coastal and freshwater or seawater exposure. Hempablue 87750 is highly recommended for vessels operating at more than 8 knots. Hempablue guarantees excellent antifouling performance for up to 60 months.

Certificates / Approvals

- 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).

Features

- Biocide free
- Very smooth coating surface and low friction.
- Maximized out docking fuel performance.
- High solids
- Very high fuel saving potential.
- Instant effect on contact with water.
- Easy overcoating.
- Application in warm environment.
- Can be applied down to 0°C [32°F].

Product safety

Flash point 32°C [90°F]

VOC content mixed product

Legislation	Value
EU	251 g/L [2.09 lb/US gal]
US (coatings)	250 g/L [2.09 lb/US gal]
US (regulatory)	250 g/L [2.09 lb/US gal]
China	251 g/L [2.09 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

87750

Product components

Base 87758
Curing Agent 98952

Standard shade* / code

Red 59151

Gloss

Glossy

Volume solids

71%

Specific gravity

1 kg/L [8 lb/US gal]

Reference dry film thickness

150 micron [5.9 mils]

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Surface preparation

Cleanliness

- According to Hempel's Specification.

New build:

- According to Hempel's Specification.

Maintenance and Repair

- According to Hempel's Specification.

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

Application

Mixing ratio

Base 87758 : Curing Agent 98952
(18.4 : 1.6 by volume)

It is recommended to use fixed volumes/can size for multi-component products. Do not open or mix the cans before the paint will be applied. Stir well before use. Consult Hempel regarding thinning.

Thinner

Hempel's Thinner 08080

Cleaner

Hempel's Thinner 08080

Pot life

Product temperature	20°C [68°F]
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Pot life	60 min
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Application method

Tool	Application parameters
Airless spray	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.019-0.021"
Brush/Roller	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

Film thickness

Specification range	Low	High	Recommended
Dry film thickness	100 micron [3.9 mils]	200 micron [7.9 mils]	150 micron [5.9 mils]
Wet film thickness	150 micron [6 mils]	275 micron [11 mils]	210 micron [8 mils]
Theoretical spreading rate	7.1 m ² /L [290 sq ft/US gal]	3.6 m ² /L [150 sq ft/US gal]	4.8 m ² /L [200 sq ft/US gal]

Product may be specified in another film thickness than indicated depending on purpose and area of use. This will alter spreading rate, drying and curing time and overcoating interval. It is vital that the specified minimum dry film thickness is uniformly achieved. Checking paint consumption per area can improve the control of film thickness.

Application conditions

- 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.
- Optimal paint temperature for proper mixing, pumping and spraying is: 20°C [68°F].
- Temperature of product must be above 15°C [59°F] during application.
- According to Hempel's Specification.

Relative Humidity:

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

Application remarks

- In order to avoid contamination on other areas, masking is recommended.
- Consult Hempel's Guidelines for application of silicone systems.

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Drying and overcoating

Product compatibility

- Previous coat: According to Hempel's Specification. Recommended products are: Hempasil
- Subsequent coat: None.

Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]
Hard dry	hours	3½	1¾	¾
Fully cured	days	7	4	3

Determined for dry film thickness 150 micron [5.9 mils] at standard conditions, see Hempel's Explanatory Notes for details.

Overcoating

Hempel's specification supersedes any guidelines indicated in the overcoating table

Quality name		10°C [50°F]	20°C [68°F]	30°C [86°F]
Immersion				
Hempablue 87750	Min	21 h	8 h	6 h
	Max	14 d	14 d	14 d

Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.
- Condensation on the freshly applied coating should be avoided.
- According to Hempel's Specification.

Overcoating details

- The surface must be dry and clean prior to application.
- According to Hempel's Specification.

Other remarks

- Consult Hempel for information on the minimum undocking time.
- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

Storage

Shelf life

Ambient temperature	25°C [77°F]
Base	24 months
Curing Agent	12 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Storage at elevated temperatures may reduce shelf life. For advice, please consult Hempel.

Storage conditions

- Product must be stored according to local legislation, at 40°C [104°F] without direct sunlight and protected from rain and snow.
- Must be stored under absolutely dry conditions, protect against seeping humidity.

Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	8.4 g CO ₂ e/m ²	0.043 lb CO ₂ e/ft ²

The carbon footprint is for 1 square meter / square foot of surface area with a dry film thickness of 1 micron / mil.

The scope includes raw materials, in-bound transport to the Hempel factory, Hempel manufacturing processes, and any Volatile Organic Compounds emitted during and after the application of the product.

It is calculated based on the standard shade defined in this PDS. Values may vary with shade.

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Additional documents

Additional information is available at the Hempel website <https://www.hempel.com/service-and-support/technical-guidelines> or at your local Hempel website:

- Explanatory Notes for Product Data Sheet.
- Application methods.
- Surface Preparation.
- General guidelines for application of Hempaguard /Hempasil coating systems.

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.