

Hempaguard X8 89940

Product characteristics

Description

Hempaguard X8 is an advanced fouling defence coating based on ActiGuard® technology which utilizes the added effect of advanced hydrogel silicone and an efficient fouling preventing biocide to boost the antifouling barrier, prolong the fouling free period and minimize hull roughness. Hempaguard X8, as part of the Hempaguard MaX system, possesses a very high fuel saving potential and is also suitable for vessels operating with long service intervals (up to 90 months) and/or very long idle periods (up to 120 days). Hempaguard X8 is an advanced fouling defence coating, based on silicone, with high solids content.

Recommended use

For all vessels, with no limitation on service speeds, including slow/ultraslow steaming vessels

Hempaguard X8 is an advanced fouling defence coating with high solids content.

The product is also suitable for propellers.

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).

Product safety

Flash point 26°C [79°F]

VOC content mixed product

Legislation	Value
EU	168 g/L [1.40 lb/US gal]
US (coatings)	165 g/L [1.38 lb/US gal]
US (regulatory)	165 g/L [1.38 lb/US gal]
China	168 g/L [1.40 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 89940

Product components Base 89949 Curing agent 98985

Standard shade* / code Brownish red 59161

Gloss Glossy

Volume solids 80 ± 2%

Specific gravity 1 kg/L [9 lb/US gal]

Reference dry film thickness 200 micron [7.9 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 89949 : Curing agent 98985 (18.2 : 1.8 by volume)

Stir well before use. 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. Consult Hempel regarding thinning.

Thinner

Hempel's Thinner 08080

Cleaner

Hempel's Thinner 08080

Pot life

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

Application method

ΤοοΙ	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	200 micron	200 micron	
	[3.9 mils]	[7.9 mils]	[7.9 mils]	
Wet film thickness	125 micron	250 micron	250 micron	
	[5 mils]	[10 mils]	[10 mils]	
Theoretical spreading rate	8 m²/L	4 m²/L	4 m²/L	
	[330 sq ft/US	[160 sq ft/US	[160 sq ft/US	
	gal]	gal]	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.
- Surface temperature must be above 0°C [32°F] during application and curing.
- According to Hempel's Specification.

Relative Humidity:

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

Application remarks

- 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.

- Subsequent coat: None or according to Hempel's specification.

Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]
Hard dry	hours	3	1	3⁄4

Determined for dry film thickness 200 micron [7.9 mils] at standard conditions, see Hempel's Explanatory Notes for details. The drying times of moisture curing products will depend on the relative humidity, therefore drying times in the field could vary.

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]	35°C [95°F]
Base	24 months	24 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.

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.
- Consult Hempel's separate guideline on general requirements for Hempaguard/Hempasil application.

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.