

89700: BASE 89709: CROSSLINKER 98980

Description: HEMPAGUARD X5 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. This boosts the antifouling barrier and prolongs the fouling free period. HEMPAGUARD X5 therefore possesses a fairly high fuel saving potential. The product is suitable for vessels operating with service intervals up to 36 months and/or long idle periods (up to 60 days). HEMPAGUARD X5 is an advanced fouling defence coating with high solids content. The product is based on silicone, and cures after addition of CROSSLINKER 98980.

Recommended use: For vessels with service speeds above 8 knots and activity higher than 50%. The product can also be used 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).

Availability: Part of Group Assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

Shade nos/Colours: 59161/ Red
Finish: Glossy
Volume solids, %: 68 ± 1
Theoretical spreading rate: $4.5 \text{ m}^2/\text{l}$ [180.4 sq.ft./US gallon] - 150 micron/6 mils
Flash point: 28°C [82.4 °F]
Specific gravity: 1 kg/litre [8.4 lbs/US gallon]
Dry to touch: 3 hour(s) , $20^\circ\text{C}/68^\circ\text{F}$
Fully cured: 7 day(s) , $20^\circ\text{C}/68^\circ\text{F}$
VOC content: 274 g/l [2.3 lbs/US gallon]
Shelf life: 2 years ($25^\circ\text{C}/77^\circ\text{F}$) for BASE and 1 year for CROSSLINKER ($25^\circ\text{C}/77^\circ\text{F}$) from time of production.
Depending on storage conditions, mechanical stirring may be necessary before usage.
The physical constants stated are nominal data according to the HEMPEL Group's approved formulas.

APPLICATION DETAILS:

Version, mixed product:

89700

Mixing ratio: BASE 89709: CROSSLINKER 98980
17.8 : 2.2 by volume
Application method: Airless spray / Brush/Roller (touch up), see REMARKS overleaf
Thinner (max.vol.): No thinning (see REMARKS overleaf)
Pot life: 1 hour(s) $20^\circ\text{C}/68^\circ\text{F}$ after addition of CROSSLINKER
Nozzle orifice: 0.019 - 0.021 "
Nozzle pressure: 150 bar [2175 psi]
(Airless spray data are indicative and subject to adjustment)
Cleaning of tools: HEMPEL'S THINNER 08080
Indicated film thickness, dry: 150 micron [6 mils]
Indicated film thickness, wet: 225 micron [9 mils]
Overcoat interval, min: According to specification.
Overcoat interval, max: According to specification.

Safety: Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Safety Data Sheets and follow all local or national safety regulations.

APPLICATION CONDITIONS:	Apply only on a dry and clean surface with a temperature above the dew point to avoid condensation. In confined spaces provide adequate ventilation during application and drying. Use only where application and curing can proceed at temperatures above: 0°C/32°F. The temperature of the surface and that of the paint itself must also be above this limit. Curing requires a relative humidity of: minimum 30%, maximum 85%. The special application properties furthermore necessitate extra consideration as to possible windy weather. The on-site representative from Hempel is to be consulted.
PRECEDING COAT:	According to specification. Recommended systems are: HEMPASIL tiecoat
SUBSEQUENT COAT:	None.
REMARKS:	It is of the utmost importance that thorough protection and cleaning procedures are followed before and after application respectively. It is advisable to apply tie coat and top coat after all other exterior painting is complete. This is to avoid silicone contamination of other painted surfaces. Before application cover all surfaces surrounding the areas to be applied with plastic sheeting to avoid overspray. After application clean all equipment very thoroughly.
Application(s):	A well executed spray application is necessary. This paint material has special application properties and it is recommended first to make a small-scale application to get familiar with the properties.
Film thicknesses/thinning:	Thinning: Not recommended. In exceptional cases use THINNER 08080 (max 5 vol%)
Cleaning of tools:	Very thorough cleaning with THINNER 08080 is necessary. DISPOSE OF CLEANING SOLVENTS AFTER USE. DO NOT RE-USE SOLVENTS AFTER CLEANING.
Storage Conditions:	Must be stored under absolutely dry conditions, protect against seeping humidity.
Undocking:	Minimum: 24 hour(s)
Overcoating note:	One coat normally recommended.
Note:	Hempaguard X5 89700 For professional use only.
ISSUED BY:	HEMPEL A/S

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This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" available on www.hempel.com. Data, specifications, directions and recommendations given in this data sheet represent only test results or experience obtained under controlled or specially defined circumstances. Their accuracy, completeness or appropriateness under the actual conditions of any intended use of the Products herein must be determined exclusively by the Buyer and/or User.

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