



Product Data

HEMPASIL® 77100

BASE 77109 - HEMPASIL CROSSLINKER 97080
FOULING RELEASE COATING

Description:

HEMPASIL 77100 is a copper free, 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.

It provides a smooth, low surface energy, hydrophobic surface with special surface release properties whereby fouling settlement is minimised. The surface properties facilitate self cleaning and provide easy clean characteristics. The coating may accumulate some fouling under static conditions (idle periods).

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 a fouling release coating for High Speed Craft (HSC), powerful commercial and military vessels (such as fast ferries, patrol and coast guard vessels, high speed monohulls, wave piercers, hydrofoils etc.) with service speeds in excess of 25 knots and with medium to high activity.

HEMPASIL 77100 will typically be used in cases where a full new F/R system is to be applied or for recoating of existing F/R system.

Availability:

Part of Group Assortment. Local availability subject to confirmation.

PHYSICAL CONSTANTS:

Colour/Shade nos.:	Grey/15150 - Black/19990 - Blue/32150
Finish:	Glossy
Volume solids, %:	70 ± 1
Theoretical spreading rate:	4.7 m ² /litre - 150 micron 187 sq.ft./US gallon - 6 mils
Flash point:	28°C/82°F
Specific gravity:	1.0 kg/litre - 8.3 lbs/US gallon
Dry to touch:	3 hours at 20°C/68°F
Fully cured:	7 days at 20°C/68°F
V.O.C.:	270 g/litre - 2.3 lbs/US gallon
Shelf life:	1½ years (25°C/77°F) from time of production. Depending on storage conditions, mechanical stirring may be necessary before usage. If the shelf life is exceeded please contact HEMPEL for further advice.

The physical constants stated are nominal data according to the HEMPEL Group's approved formulas. They are subject to normal manufacturing tolerances and where stated, being standard deviation according to ISO 3534-1.

APPLICATION DETAILS:

Mixing ratio for 77100	Base 77109: CROSSLINKER 97080 7:1 by volume
Application method:	Airless spray Brush (<i>touch-up</i>) (see <i>REMARKS overleaf</i>)
Thinner (max. vol.):	No thinning (see <i>REMARKS overleaf</i>)
Nozzle orifice:	.019"-.021"
Nozzle pressure:	150 bar/2200 psi (<i>Airless spray data are indicative and subject to adjustment</i>)
Cleaning of tools:	THINNER 08080
Pot life:	2 hours (20°C/68°F) after addition of HEMPASIL CROSSLINKER 97080
Indicated film thickness, dry:	150 micron/6 mils
Indicated film thickness, wet:	225 micron/9 mils
Recoat interval, min:	6 hours (20°C/68°F)
Recoat interval, max:	None

Safety:

Handle with care. Before and during use, observe all safety labels on packaging and paint containers, consult HEMPEL Material Safety Data Sheets and follow all local or national safety regulations. Avoid inhalation, avoid contact with skin and eyes, and do not swallow. Take precautions against possible risks of fire or explosions as well as protection of the environment. Apply only in well ventilated areas.



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APPLICATION CONDITIONS:	Use only where application can proceed at temperatures above 5°C. The temperature of the surface and that of the paint itself must also be above this limit. Apply only on a surface with a temperature above the dew point to avoid condensation. Relative humidity of the air between min. 30% and max. 85%. The surface should be clean and dry. The special application properties do furthermore necessitate extra consideration as to possible windy weather. The on-site representative from Hempel is to be consulted. In confined spaces provide adequate ventilation during application and drying.
PRECEDING COAT:	HEMPASIL NEXUS 27302.
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 HEMPASIL SYSTEM 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. See below.
Application method:	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.
Thinning:	Not recommended. In exceptional cases use THINNER 08080 (max. 5 vol%).
Recommended number of coats:	One coat normally recommended.
Cleaning of tools:	Very thorough cleaning with THINNER 08080 is necessary. DISPOSE OF CLEANING SOLVENTS AFTER USE. DO NOT RE-USE SOLVENTS AFTER CLEANING.
Detailed instructions:	Will be available in connection with separate painting specifications.
Undocking:	Minimum 24 hours (20°C/68°F). At temperatures below 15°C/59°F minimum 48 hours.
Storage of cans:	Must be stored under absolutely dry conditions, protect against seeping humidity.
Note:	HEMPASIL 77100 is for professional use only.
ISSUED BY:	HEMPEL A/S - 7710015150CR002

This Product Data Sheet supersedes those previously issued.

For explanations, definitions and scope, see "Explanatory Notes" in the HEMPEL Book.

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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Product data are subject to change without notice and become void five years from the date of issue.