Hempel's AntiFouling Olympic 86951

Product characteristics

Description
Hempel's Antifouling Olympic 86951 is a high solids, tin-free, self-smoothening and self-polishing antifouling. Polishing is based on an ion exchange, resulting in a hydrolysable activated layer. An inorganic fiber reinforcement of the resin matrix ensures effective polishing control and mechanical strength.
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 an economical antifouling for bottom and boottop on deep-sea operating vessels operating at medium to high speed and high activity with short idle periods, and with dry-docking interval of up to 36 months.
Aluminium hulls: see REMARKS overleaf.

Certificates / Approvals
- This product does not contain cybutryne or organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Antifouling Systems on Ships adopted by IMO October 2001 (IMO Document AFS/CONF/26 and its subsequent amendments)

Product safety

Flash point 27°C [81°F]

VOC content

Legislation	Value
EU	433 g/L [3.61 lb/US gal]
US (coatings)	433 g/L [3.61 lb/US gal]
China	433 g/L [3.61 lb/US gal]
Korea	433 g/L [3.61 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
86951

Standard shade / code
Brownish red 51110 *

Gloss
Flat

Volume solids
52 ± 2%

Specific gravity
1.8 kg/L [15 lb/US gal]

Reference dry film thickness
100 micron [4.0 mils]

Surface preparation

New build:
- According to Hempel's Specification.

Maintenance and Repair
- Remove salts, detergents, contaminants and marine growth by high pressure fresh water cleaning.
- Sealer: Whether to use a sealer coat/tiecoat or not depends on the type and condition of the existing antifouling.

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

* Slight discolouration may occur. This does not affect the performance of the coating.

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Application

Mixing ratio
This product contains heavy particles. Stir well before use.

Thinner
Hempel's Thinner 08080

Cleaner
Hempel's Thinner 08080

Application method

Tool	Application parameters
Airless spray	Nozzle pressure: 270 bar [3900 psi] Nozzle orifice: 0.027-0.031"

Filter: surge tank filter and tip filter should be removed. 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	80 micron [3.2 mils]	150 micron [6.0 mils]	100 micron [4.0 mils]
Wet film thickness	154 micron [6.2 mils]	289 micron [12 mils]	192 micron [7.7 mils]
Theoretical spreading rate	6.5 m²/L [265 sq ft/US gal]	3.5 m²/L [143 sq ft/US gal]	5.2 m²/L [212 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.

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.

Application remarks
- Copper containing antifouling must not have any electrical contact with aluminium hull and other aluminium components.

Drying and overcoating

Product compatibility
- Previous coat: According to Hempel's Specification. Hempadur 45182, Hempadur 47182, Hempadur Tiecoat 49183
- Subsequent coat: None.

Drying time

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

Determined for dry film thickness 100 micron [4.0 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.

Overcoating details
- The surface must be dry and clean prior to application.
- Consult Hempel for specific details

Other remarks
- Consult Hempel for information on the minimum undocking time.

Storage

Shelf life

Ambient temperature	25°C [77°F]
Product	60 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.

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Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	13 g CO_2e/m^2	0.068 lb CO_2e/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.

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.
- General Application Guidelines