Hempel's AntiFouling Olympic+ 72900

Product characteristics

Description
Hempel's Antifouling Olympic+ 72900 is a high solid, self-polishing antifouling. The robust rosin technology combined with a good biocide package ensures predictable antifouling protection. The use of microfiber technology ensures superior mechanical strength to avoid cracking and peeling and reduces maintenance costs during repair.

Recommended use
Hempel's Antifouling Olympic+ 72900 can be used for both newbuildings and maintenance of underwater hull and boottop. Recommended for slow steaming vessels. For drydocking intervals up to 36 months.

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)

Features
- Good biocide package.
- Low activity level.
- Instant effect on contact with water.
- Easy overcoating.
- Application in warm environment.
- Can be applied below 0°C [32°F].

Product safety

Flash point 23°C [73°F]

VOC content

Legislation	Value
EU	365 g/L [3.05 lb/US gal]
US (coatings)	365 g/L [3.05 lb/US gal]
US (regulatory)	365 g/L [3.05 lb/US gal]
China	365 g/L [3.05 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. VOC values may vary with shade, please consult the Safety Data Sheet, section 9.

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
72900

Standard shade* / code
Brownish red 51110 **

Gloss
Flat

Volume solids
63 ± 2%

Specific gravity
1.7 kg/L [14 lb/US gal]

Reference dry film thickness
100 micron [4.0 mils]

* Other shades are available, please contact your local Hempel representative.
** Slight discolouration may occur. This does not affect the performance of the coating.

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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.

Application

Mixing ratio
This product contains heavy particles. Stir well before use. Consult Hempel regarding thinning.

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. Never thin more than allowed according to local environmental legislation. 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]	175 micron [7.0 mils]	100 micron [4.0 mils]
Wet film thickness	126 micron [5.1 mils]	276 micron [11 mils]	158 micron [6.3 mils]
Theoretical spreading rate	7.9 m²/L [322 sq ft/US gal]	3.6 m²/L [147 sq ft/US gal]	6.3 m²/L [257 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. For best performance, avoid excessive film thickness. Overthickness must be closely controlled and never locally exceed 175 micron [7.0 mils] DFT. On irregular surfaces it is recommended to employ special care in avoiding over application.

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].
- According to Hempel's Specification.

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. Recommended products are: Hempadur 45182, Hempadur 47182, Hempadur 49183,
- Subsequent coat: None or according to Hempel's specification.

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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. Any masking tape used during paint application should be removed while the paint is still in the wet condition.

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		
Hempel's AntiFouling Olympic+ 72900	Min Max	13 h Ext	6½ h Ext	4½ h Ext

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.

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	36 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 maximum 40 °C [104°F], without direct sunlight and protected from rain and snow.

Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	8.8 g CO_2e/m^2	0.046 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.

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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.
- Application Instruction for this product.

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.