

Hempel's AntiFouling Globic 9000 78900

Product characteristics

Description

Hempel's Antifouling Globic 9000 78900 is a premium, high solids, chemically hydrolysing SPC antifouling based on Nano Acrylate Technology (NAT). The product offers leading low friction properties, self-smoothing and very fine control of polishing for optimal performance due to the efficient biocide package. A high polishing rate boosts the performance as more biocides leaches to the surface where a very thin leached layer is maintained. The use of microfiber technology increases the mechanical strength to avoid cracking and peeling and reduces maintenance costs during repair.

Recommended use

Hempel's Antifouling Globic 9000 78900 can be used for both newbuildings and maintenance of underwater hull and boottop. The product is especially good for slow steaming vessels and vessels with frequent idle days. For drydocking intervals up to 90 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

- Powerful biocide mix against hard and soft fouling.
- Excellent low friction and self-smoothing properties.
- Low activity level.
- High volume solids for fast paint application and less time in dock.
- Instant effect on contact with water.
- Easy overcoating.
- Application in warm environment.
- Can be applied below 0°C [32°F].
- Good colour stability.
- Performance guarantee.

Product safety

Flash point 23°C [73°F]

VOC content

| Legislation | Value |
|-----------------|--------------------------|
| EU | 380 g/L [3.17 lb/US gal] |
| US (coatings) | 380 g/L [3.17 lb/US gal] |
| US (regulatory) | 380 g/L [3.17 lb/US gal] |
| China | 380 g/L [3.17 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

78900

Standard shade* / code

Brownish red 51110 **

Gloss

Flat

Volume solids

58 ± 2%

Specific gravity

1.9 kg/L [16 lb/US gal]

* 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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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.

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" |
| Roller | Not Applicable. |

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] | 150 micron [6.0 mils] | 100 micron [4.0 mils] |
| Wet film thickness | 137 micron [5.5 mils] | 257 micron [10 mils] | 172 micron [6.9 mils] |
| Theoretical spreading rate | 7.3 m ² /L [297 sq ft/US gal] | 3.9 m ² /L [159 sq ft/US gal] | 5.8 m ² /L [236 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 150 micron [6.0 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 Tiecoat 49183.
- Subsequent coat: None or according to Hempel's specification.

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.

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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 Globic 9000 78900 | Min | 12 h | 6½ h | 4½ h | | |
| | Max | No max | No max | No max | | |
| Hempel's Underwater Primer 26030 | Min | - | - | - | | |
| | Max | - | - | - | | |
| Hempel's Pro Tiecoat 49200 | Min | - | - | - | | |
| | Max | - | - | - | | |

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 | 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

- The product must be stored in accordance with Safety Data Sheet, label and local regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Carbon Footprint

| Dry film thickness | 1 µm | 1 mil |
|--------------------------------|---|---|
| GWP (Global Warming Potential) | 17.2 g CO ₂ e/m ² | 0.09 lb CO ₂ e/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.