

# Hempel's Antifouling Basic

## Product characteristics

### Description

Hempel's Antifouling Basic is a high solids antifouling based on robust rosin technology combined with a good biocide package for predictable antifouling protection. The patented microfibers give BASIC a best-in-class mechanical strength to avoid cracking and peeling.

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

For both newbuildings and maintenance of underwater hull and boottop for up to 36 months drydocking interval.

## Product safety

**Flash point** 24°C [75°F]

### VOC content

Legislation	Value
EU	383 g/L [3.20 lb/US gal]
US (coatings)	383 g/L [3.20 lb/US gal]
US (regulatory)	383 g/L [3.20 lb/US gal]
China	383 g/L [3.20 lb/US gal]

According to specific legislation, see details in the Explanatory Notes available at Hempel website, [hempel.com](http://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

71950

### Standard shade / code

Brownish red 51110 \*

### Gloss

Flat

### Volume solids

60 ± 2%

### Specific gravity

1.6 kg/L [14 lb/US gal]

### Reference dry film thickness

100 micron [3.9 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. In general, thinning is not recommended.

### Thinner

Hempel's Thinner 08080

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

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## 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 [3.1 mils]	175 micron [6.9 mils]	100 micron [3.9 mils]
Wet film thickness	130 micron [5 mils]	290 micron [11 mils]	170 micron [7 mils]
Theoretical spreading rate	7.5 m <sup>2</sup> /L [310 sq ft/US gal]	3.4 m <sup>2</sup> /L [140 sq ft/US gal]	6 m <sup>2</sup> /L [240 sq ft/US gal]

## 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. Recommended products are: Hempadur 45182, Hempadur 47182
- 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 [3.9 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]	35°C [95°F]
Product	36 months	24 months

Shelf life from date of production, when stored in original, unopened containers. Thereafter, the product quality must be re-inspected. Always check the best before date or expiry date on the label.

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## Additional documents

Additional information is available at the Hempel website [hempel.com](http://hempel.com) or at your local Hempel website:

- Explanatory Notes explaining the fields in this Product Data Sheet.
- Surface Preparation Guidelines.
- Application Guidelines for different application methods.

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](http://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 <a href="http://www.hempel.com">www.hempel.com</a> and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>

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](http://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.