

# Hempadur OBM 47150

## Product characteristics

### Description

Hempadur OBM 47150 is an epoxy coating. It forms a hard and tough surface resistant to seawater, mineral oils and splashes from petrol and related products.

### Recommended use

Hempadur OBM 47150 is recommended for general onboard maintenance and repair work of e.g. decks, superstructures, topsides, hatch covers and cargo holds of ships. The product is workable at application temperatures above 0°C [32°F].

### Service temperature:

- Maximum, dry exposure only: 140°C [284°F].

### Certificates / Approvals

- EC-type examined as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on [hempel.com](http://hempel.com) for further details.
- Complies with US FDA and EU food regulations for contact with dry foodstuff. Consult Hempel for details.

### Features

- All-round product.
- Optimised for brush and roller.

## Product safety

**Flash point** 29°C [84°F]

### VOC content mixed product

Legislation	Value	5% thinning, by volume	Limit value, phase II (2010) <sup>a</sup>
EU	426 g/L [3.56 lb/US gal]	446 g/L [3.72 lb/US gal]	500 g/L [4.17 lb/US gal]
US (coatings)	426 g/L [3.56 lb/US gal]	-	-
US (regulatory)	426 g/L [3.56 lb/US gal]		
China	426 g/L [3.56 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. VOC values may vary with shade, please consult the Safety Data Sheet, section 9. <sup>a</sup>EU Directive 2004/42/CE.

### 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

47150

### Product components

Base 47159  
Curing Agent 97432

### Standard shade\* / code

Grey 11480

### Gloss

Semi-flat

### Volume solids

55 ± 2%

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## Specific gravity

1.3 kg/L [11 lb/US gal]

## Reference dry film thickness

75 micron [3.0 mils]

## Surface preparation

### Cleanliness

- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents and other contaminants by high pressure fresh water cleaning.

### Maintenance and Repair

- Clean thoroughly by hand or power tool to St 3 (ISO 8501-1) / SP 3 (SSPC). Avoid polishing.
- Feather edges to sound surrounding coating.
- Remove dust, blast media and loose materials.

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

## Application

### Mixing ratio

Base 47159 : Curing Agent 97432  
(3 : 1 by volume)

Stir well before use.

### Thinner

Hempel's Thinner 08450

### Cleaner

Hempel's Tool Cleaner 99610

### Pot life

Product temperature	10°C [50°F]	20°C [68°F]	30°C [86°F]
Pot life (spray)	8 hours	5 hours	3 hours
Pot life (brush)	12 hours	8 hours	5 hours

## Application method

Tool	Thinning max vol.	Application parameters
Airless spray	10%	Nozzle pressure: 250 bar [3600 psi] Nozzle orifice: 0.018-0.023"
Brush/Roller	10%	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. 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	50 micron [2.0 mils]	125 micron [4.9 mils]	75 micron [3.0 mils]
Wet film thickness	90 micron [3.5 mils]	225 micron [9 mils]	130 micron [5 mils]
Theoretical spreading rate	11 m <sup>2</sup> /L [450 sq ft/US gal]	4.4 m <sup>2</sup> /L [180 sq ft/US gal]	7.3 m <sup>2</sup> /L [300 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.

## 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.
- Surface temperature must be above 0°C [32°F] during application and curing.

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification.
- Subsequent coat: According to Hempel's Specification.

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## Drying time

Surface temperature		0°C [32°F]	10°C [50°F]	20°C [68°F]	30°C [86°F]
Touch dry	min	120	60	20	15
Hard dry	hours	11	6	3½	2

Determined for dry film thickness 75 micron [3.0 mils] at standard conditions, see Hempel's Explanatory Notes for details.

## Overcoating

Hempel's specification supersedes any guidelines indicated in the overcoating table

Quality name		0°C [32°F]	10°C [50°F]	20°C [68°F]	30°C [86°F]
Atmospheric medium					
Hempadur OBM 47150	Min	36 h	16 h	8 h	6 h
	Max	90 d	90 d	90 d	67 d
Hempathane HS 55610	Min	36 h	16 h	8 h	6 h
	Max	45 d	20 d	10 d	7½ d
Immersion					
Hempadur OBM 47150	Min	54 h	24 h	12 h	9 h
	Max	90 d	60 d	30 d	22 d

Overcoating times are indicative for products of the same generic chemistry. Consult Hempel's specification for more information.

## Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.

## Overcoating details

- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.
- The surface must be dry and clean prior to application.

## Other remarks

- Epoxy coats have an inherent tendency of chalking in outdoor exposure. This does not affect the performance of the coating.
- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

## Storage

### Shelf life

Ambient temperature	25°C [77°F]	35°C [95°F]
Base	24 months	16 months
Curing Agent	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.

### 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.

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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.
- General Application Guidelines

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).

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