

# Hempadur 15460

## Product characteristics

### Description

Hempadur 15460 is an amine adduct curing, epoxy coating with excellent resistance to a wide range of chemicals as tabulated in the separate Chemical Protection guide.

### Recommended use

Hempadur 15460 is recommended as a tank lining with resistance against a wide range of chemicals. Also suitable as lining for grey/black water, brine, drilling mud, fish (RSW) tanks etc. The product is applicable down to 5°C [40°F].

### Service temperature:

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

### Certificates / Approvals

- This product is type approved according to PSPC requirements based on crossover testing over a wide range of shopprimers. Consult Hempel for specific Type Approval Certificates as defined in IMO Resolution: "MSC.288(87)",

### Features

- High chemical and temperature resistance with only two coats.
- Build to minimise turnaround time when switching cargos.

## Product safety

**Flash point** 30°C [86°F]

### VOC content mixed product

| Legislation     | Value                    |
|-----------------|--------------------------|
| EU              | 326 g/L [2.72 lb/US gal] |
| US (coatings)   | 326 g/L [2.72 lb/US gal] |
| US (regulatory) | 326 g/L [2.72 lb/US gal] |
| China           | 326 g/L [2.72 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.

### 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

15460

### Product components

Base 15469  
Curing Agent 95046

### Standard shade\* / code

Light grey 11150

### Gloss

Semi-gloss

### Volume solids

66 ± 2%

### Specific gravity

1.5 kg/L [13 lb/US gal]

### Reference dry film thickness

125 micron [5.0 mils]

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## 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.

### New build:

- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media and loose materials.

### Maintenance and Repair

- Spot abrasive blasting to min. PSa 2½ (ISO 8501-2) / SP 10 (SSPC).
- Water jetting to Wa 2½ (ISO 8501-4).
- Minor areas may be hand or power tool cleaned instead of abrasive blasting.
- Remove dust, blast media and loose materials.
- Flash rust degree of maximum FR L (ISO 8501-4).

### Roughness

- Surface profile Medium (G) (ISO 8503-2).

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

## Application

### Mixing ratio

Base 15469 : Curing Agent 95046  
(4 : 1 by volume)

Stir well before use.

### Thinner

Hempel's Thinner 08450

### Cleaner

Hempel's Tool Cleaner 99610

### Pot life

| Product temperature | 15°C<br>[59°F] | 20°C<br>[68°F] |
|---------------------|----------------|----------------|
| Induction time      | 15 min         | 10 min         |
| Pot life (spray)    | 3 hours        | 2 hours        |
| Pot life (brush)    | 2¼ hours       | 2 hours        |

### Application method

| Tool          | Thinning max vol. | Application parameters                                              |
|---------------|-------------------|---------------------------------------------------------------------|
| Airless spray | 5%                | Nozzle pressure: 200 bar [2900 psi]<br>Nozzle orifice: 0.019-0.023" |
| Brush         | 5%                | Not Applicable.                                                     |

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. As tank lining, brush and roller application must only be limited to stripe coating and touch up areas or minor repairs. 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         | 100 micron<br>[4.0 mils]       | 160 micron<br>[6.4 mils]       | 125 micron<br>[5.0 mils]       |
| Wet film thickness         | 151 micron<br>[6.1 mils]       | 242 micron<br>[9.7 mils]       | 189 micron<br>[7.6 mils]       |
| Theoretical spreading rate | 6.6 m²/L<br>[269 sq ft/US gal] | 4.1 m²/L<br>[167 sq ft/US gal] | 5.3 m²/L<br>[216 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

- Optimal paint temperature for proper mixing, pumping and spraying is: 15-25°C [59-77°F].
- 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 5°C [41°F] during application and curing.

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## Drying and overcoating

### Product compatibility

- Previous coat: None or according to Hempel's specification.
- Subsequent coat: According to Hempel's Specification.  
Recommended product is: Hempadur 15460

### Drying time

| Surface temperature |       | 10°C<br>[50°F] | 15°C<br>[59°F] | 20°C<br>[68°F] | 30°C<br>[86°F] |
|---------------------|-------|----------------|----------------|----------------|----------------|
| Touch dry           | min   | 90             | 60             | 45             | 30             |
| Hard dry            | hours | 11             | 7              | 4              | 2½             |
| Fully cured         | days  | 8              | 6              | 4              | 3              |

Determined for dry film thickness 125 micron [5.0 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   |     | 10°C<br>[50°F] | 20°C<br>[68°F] | 30°C<br>[86°F] |
|----------------|-----|----------------|----------------|----------------|
| Immersion      |     |                |                |                |
| Hempadur 15460 | Min | 18 h           | 6 h            | 3 h            |
|                | Max | 40 d           | 30 d           | 20 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<br>[77°F] |
|---------------------|----------------|
| Base                | 12 months      |
| Curing Agent        | 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) | 8.6 g CO <sub>2</sub> e/m <sup>2</sup> | 0.045 lb CO <sub>2</sub> e/ft <sup>2</sup> |

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.
- Substrates.
- Surface Preparation.
- Application Instruction for this product.
- Repair & maintenance.
- Inspection & quality control.
- Tank linings.

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.