# Hempadur Multi-Strength 35535

## Product characteristics

**Description**
Hempadur Multi Strength 35535 is a solvent free, high-build, polyamine adduct cured epoxy paint, which cures to a coating with good resistance to fresh water and abrasion.

**Recommended use**
Hempadur Multi Strength 35535 is recommended as a lining in potable water tanks and pipelines and as a self-primed, high-build coating primarily for areas subject to abrasion and/or to a highly corrosive environment.

**Service temperature:**
- Maximum, dry exposure only: 140°C [284°F].
- Maximum, in water (no temperature gradient): 35°C [95°F].

**Certificates / Approvals**
- Certified by NSF International to NSF/ANSI standard 61- Drinking Water System Components - Health Effects. Restrictions apply. Please consult http://info.nsf.org/Certified/PwsComponents and this PDS, page 4 for detailed information.

**Features**
- Excellent anticorrosive properties
- Excellent water resistance
- Solvent free.

## Product safety

**Flash point** 138°C [280°F]

**VOC content mixed product**

| Legislation | Value |
|---|---|
| EU | 10 g/L [0.08 lb/US gal] |
| US (coatings) | 10 g/L [0.08 lb/US gal] |
| US (regulatory) | 10 g/L [0.08 lb/US gal] |
| China | 10 g/L [0.08 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.

**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**
35535

**Product components**
Base 35536
Curing Agent 95535

**Standard shade* / code**
Light grey 10504

**Gloss**
Semi-gloss

**Volume solids**
100%

**Specific gravity**
1.3 kg/L [11 lb/US gal]

**Reference dry film thickness**
300 micron [12 mils]

* Other shades are available, please contact your local Hempel representative.

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## Surface preparation

**Cleanliness**
- Remove oil, grease and other contaminants by suitable detergent cleaning.
- Remove salts, detergents, contaminants and marine growth 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.
- Concrete: According to Hempel's Specification.

Maintenance and Repair
- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media and loose materials.
- Concrete: According to Hempel's Specification.

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

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

## Application

**Mixing ratio**
Base 35536 : Curing Agent 95535
(3 : 1 by volume)

**Cleaner**
Hempel's Tool Cleaner 99610

**Pot life**

| Product temperature | 20°C [68°F] |
|---|---|
| Pot life | 60 min |

**Application method**

| Tool | Application parameters |
|---|---|
| Airless spray | Nozzle pressure: 250 bar [3600 psi]<br>Nozzle orifice: 0.019-0.031" |

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 | 200 micron [7.9 mils] | 300 micron [12 mils] | 300 micron [12 mils] |
| Wet film thickness | 200 micron [8 mils] | 300 micron [12 mils] | 300 micron [12 mils] |
| Theoretical spreading rate | 5 m²/L [200 sq ft/US gal] | 3.3 m²/L [130 sq ft/US gal] | 3.3 m²/L [130 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.
- Surface temperature must be above 10°C [50°F] during application and curing.
- Temperature of product must be above 15°C [59°F] during application.

**Relative Humidity:**
- Relative humidity must be below 85% during application.
- Relative humidity must be below 85% during curing.

## Drying and overcoating

**Product compatibility**
- Previous coat: None or according to Hempel's specification.
- Subsequent coat: None or according to Hempel's specification.

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### Drying time

| Surface temperature | | 20°C [68°F] |
|---|---|---|
| Touch dry | hours | 6 |
| Hard dry | hours | 15 |
| Fully cured | days | 7 |

Determined for dry film thickness 300 micron [12 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 [50°F] | 20°C [68°F] | 30°C [86°F] | 40°C [104°F] |
|---|---|---|---|---|---|
| | | Immersion | | | |
| Hempadur Multi-Strength 35535 | Min | 40 h | 16 h | 8 h | 5 h |
| | Max | 12 d | 5 d | 60 h | 36 h |

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 clean before overcoating.
- As tank lining, if the maximum overcoating interval is exceeded, roughening of the surface by sweep abrasive blasting is necessary to ensure intercoat adhesion".

## Storage

### Shelf life

| Ambient temperature | 25°C [77°F] |
|---|---|
| Base | 36 months |
| Curing Agent | 24 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) | 7.1 g $CO_2e/m^2$ | 0.037 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.
- 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 (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.