

Hempadur 35560

Product characteristics

Description

Hempadur 35560 is a solvent free, high-build, polyamine adduct cured epoxy paint, which cures to a coating with good resistance to fresh water.

Recommended use

Hempadur 35560 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; e.g. splash zones, jetty and bridge pilings and decks.

Service temperature:

- Maximum, dry exposure only: 140°C [284°F].
- Maximum, fresh water (directly on steel, no temperature gradient): 45°C [113°F].

Certificates / Approvals

- Approved by WRAS for contact with potable water. Please consult <https://www.wrasapprovals.co.uk/approvals-directory/?search=Hempel&page=0> for detailed information.
- Complies with US FDA and EU food regulations for contact with dry foodstuff. Consult Hempel for details.

Features

- Excellent anticorrosive properties.
- Solvent free.
- Benzyl alcohol free.

Product safety

Flash point 143°C [290°F]

VOC content mixed product

Legislation	Value
EU	0 g/L [0.00 lb/US gal]
US (coatings)	0 g/L [0.00 lb/US gal]
US (regulatory)	0 g/L [0.00 lb/US gal]
China	0 g/L [0.00 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

35560

Product components

Base 35569
Curing Agent 98560

Standard shade* / code

Cream 20320

Gloss

Glossy

Volume solids

100%

Specific gravity

1.4 kg/L [11 lb/US gal]

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Reference dry film thickness

200 micron [8.0 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.
- Concrete: According to Hempel's Specification.

New build:

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

Maintenance and Repair

- 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 35569 : Curing Agent 98560
(6.8 : 2 by volume)

Thinning is not allowed. Stir well before use.

Thinner

No thinning

Cleaner

Hempel's Tool Cleaner 99610

Pot life

Product temperature	15°C [59°F]	20°C [68°F]	25°C [77°F]
Induction time	20 min	10 min	5 min
Pot life	2 hours	1½ hours	1 hour

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	No thinning	Nozzle pressure: 220 bar [3200 psi] Nozzle orifice: 0.019-0.025"
Brush	No thinning	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	200 micron [8.0 mils]	600 micron [24 mils]	200 micron [8.0 mils]
Wet film thickness	200 micron [8.0 mils]	600 micron [24 mils]	200 micron [8.0 mils]
Theoretical spreading rate	5 m ² /L [204 sq ft/US gal]	1.7 m ² /L [69 sq ft/US gal]	5 m ² /L [204 sq ft/US gal]

For best performance, avoid excessive film thickness.

Application conditions

- Temperature of product must be above 15°C [59°F] during application.
- 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.
- If surface temperature is below 15°C [59°F], the relative humidity must be below 65%.

Relative Humidity:

- Relative humidity must be below 85% during curing.

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Drying and overcoating

Product compatibility

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

Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]	40°C [104°F]
Touch dry	hours	12	7	4½	4
Surface dry	hours	34	12	7	4½
Hard dry	hours	40	16	9	6
Fully cured	days	14	7	4	3

Determined for dry film thickness 200 micron [8.0 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 [50°F]	20°C [68°F]	30°C [86°F]	40°C [104°F]
Immersion					
Hempadur 35560	Min	40 h	16 h	8 h	5 h
	Max	35 d	14 d	7 d	4½ 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.
- As tank lining, if the maximum overcoating interval is exceeded, roughening of the surface by sweep abrasive blasting is necessary to ensure intercoat adhesion".

Other remarks

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

Storage

Shelf life

Ambient temperature	25°C [77°F]
Base	36 months
Curing Agent	12 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)	7.5 g CO ₂ e/m ²	0.039 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.
- Substrates.
- Surface Preparation.
- Application Instruction for this product.
- Repair & maintenance.
- Inspection & quality control.
- Potable water.

Additional Certifications and Standards

The WRAS approval is valid once the final coating has cured for at least the following number of days: 10 days (20°C/68°F). Overcoat interval, min: 1 day (20°C/68°F).

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.