

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.wras.co.uk/search/materials/Hempel> for detailed information.
- 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.
- Meets requirements to NORSOK M-501 when used as part of a predefined paint system. Edition 6, System 7A, 7B.
- Complies with US FDA and EU food regulations for contact with liquid and dry foodstuff. Consult Hempel for details.

Features

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

Product safety

Flash point 143°C [289°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]

Reference dry film thickness

200 micron [7.9 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 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.
- All damage of shopprimer and contamination from storage and fabrication should be thoroughly mechanically/chemically cleaned prior to final painting.

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. 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] | 400 micron [16 mils] | 200 micron [7.9 mils] |
| Wet film thickness | 200 micron [8 mils] | 400 micron [16 mils] | 200 micron [8 mils] |
| Theoretical spreading rate | 5 m²/L [200 sq ft/US gal] | 2.5 m²/L [100 sq ft/US gal] | 5 m²/L [200 sq ft/US gal] |

Overthickness should be closely controlled and never locally exceed 600 micron [24 mils] DFT. On irregular surfaces it is recommended to employ special care in avoiding over application. For best performance, avoid excessive film thickness. 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.

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 [7.9 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 | 75 d | 30 d | 15 d | 9 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 | 36 months | 24 months |
| Curing agent | 12 months | 8 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.

Additional Certifications and Standards

NSF certification applies to the product-shade as well as production site and application specification – at present this NSF certificate is valid only for paint material in shades light red/50900 and cream/20320 when produced at following Hempel factories: Hempel Paints Poland, Buk.

The NSF approval is valid once the final coating has cured for at least the following number of days: 10 days (20°C/68°F).

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).

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Additional documents

Additional information is available at the Hempel website 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 (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.