Hempadur 35760

Product characteristics

Description
Hempadur 35760 is a solvent-free, two-component, high-build phenolic epoxy paint, which cures to a durable tank lining with very high corrosion protection properties and excellent chemical resistance.

Recommended use
As a tank lining for new and old storage tanks containing oils, fuels, bio fuels and a wide range of chemicals. It can be used in conjunction with fibre glass to form a resilient reinforced tank lining. Please refer to the separate application instructions.

Service temperature:
- Maximum, dry exposure only: 140°C [284°F].
- Wet service temperatures: Please consult the Chemical protection guide at hempel.com.
- Other liquids: Please contact Hempel.
- Minimum, recommended by Hempel for dry exposure: -50°C [-58°F].

Product safety

Flash point 133°C [271°F]

VOC content mixed product

Legislation	Value
EU	37 g/L [0.31 lb/US gal]
US (coatings)	37 g/L [0.31 lb/US gal]
US (regulatory)	37 g/L [0.31 lb/US gal]
China	37 g/L [0.31 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: 35760

Product components: Base 35769 | Curing Agent 98760

Standard shade / code: Cream 20320

Gloss: Semi-gloss

Volume solids: 99 ± 1%

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

Reference dry film thickness: 500 micron [20 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.

New build:
- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC) / NACE No.2.
- 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).
- Flash rust degree of maximum FR M (ISO 8501-4).
- Remove dust, blast media and loose materials.

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

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

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Application

Mixing ratio
Base 35769 : Curing Agent 98760
(6.4 : 3.6 by volume)

Thinning is not allowed. Stir well before use. It is recommended to use fixed volumes/can size for multi-component products.

Cleaner
Hempel's Tool Cleaner 99610

Application method

Tool	Application parameters
Airless spray	Nozzle pressure: 250 bar [3600 psi] Nozzle orifice: 0.019-0.031"
Brush	-
Roller	-

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	250 micron [10 mils]	600 micron [24 mils]	500 micron [20 mils]
Wet film thickness	252 micron [10 mils]	605 micron [24 mils]	504 micron [20 mils]
Theoretical spreading rate	4 m²/L [163 sq ft/US gal]	1.7 m²/L [69 sq ft/US gal]	2 m²/L [81 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 10°C [50°F] during application and curing.
- Temperature of product must be above 15°C [59°F] during application.
- Increased paint temperatures will significantly reduce the pot life.
- Be aware that mixed paint will develop heat very fast and could reach temperatures exceeding 25°C [77°F].

Relative Humidity:
- Relative humidity must be below 80% during application.

Application remarks
- Consult Hempel's Guideline for Tank Bottoms Repair (issued: December 2019).

Drying and overcoating

Product compatibility
- Previous coat: None or according to Hempel's specification. Recommended product is: Hempadur 15590
- Subsequent coat: None.

Drying time

Surface temperature		20°C [68°F]
Touch dry	hours	3
Hard dry	hours	9

Determined for dry film thickness 500 micron [20 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]
Atmospheric medium					
Hempadur 35760	Min	40 h	16 h	8 h	5 h
	Max	75 d	30 d	15 d	9 d
Immersion					
Hempadur 35760	Min	40 h	16 h	8 h	5 h
	Max	75 d	30 d	15 d	9 d

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.

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Storage

Shelf life

Ambient temperature	25°C [77°F]
Base	12 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. The shelf life printed on product labels is based on regional climate conditions. 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)	5.9 g CO_2e/m^2	0.031 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.

Additional documents

Additional information is available at the Knowledge Center: https://www.hempel.com/knowledge-center . The documents below can be found in the Technical Guidelines section: https://www.hempel.com/knowledge-center/technical-guidelines or at the 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.