Hempathane Fast Dry 55750

Product characteristics

Description
Hempathane Fast Dry 55750 is a 2-component polyurethane paint. Cured with aliphatic isocyanates. Good gloss retention and colour stability. Contains zinc phosphate.

Recommended use
Hempathane Fast Dry 55750 is recommended as a high-build solution for protecting steel structures, in compliance with VOC regulations. The product may be specified as a one-coat direct-to-metal system in corrosive environments classified as C2 and C3. It may also be applied directly on galvanised steel.
Hempathane Fast Dry 55750 can also be used as an undercoated intermediate coat or topcoat within the system.

Service temperature:
- Maximum, dry exposure only: 120°C [248°F].

Certificates / Approvals
- Third-party verified, product-specific Environmental Product Declaration (Type III EPD, ISO 14025, EN 15804)
- Reaction to fire tested (as part of a coating system with approved primer and topcoat) according to EN13501-1 B-s1, d0.

Product safety

Flash point 29°C [84°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 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
55750

Product components
Base 55759
Curing Agent 97050

Standard shade / code
Light grey 11150 *

Wide range of colours is available via Hempel's tinting system.

Gloss
Semi-gloss

Volume solids
65 ± 2%

Specific gravity
1.4 kg/L [12 lb/US gal]

Reference dry film thickness
100 micron [4.0 mils]

Aluminium shade / code
Aluminium grey 19871 **

Gloss
Please consult Hempel's Guideline on aluminium pigmented coatings.

* Colour stability may be affected by exposure to chemicals, high temperatures or inadequate ventilation.
** Appearance of the aluminium pigmented coats will depend on application method, drying conditions, handling, etc.

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Volume solids
63 ± 2%

Specific gravity
1.4 kg/L [12 lb/US gal]

Reference dry film thickness
100 micron [4.0 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.

New build:
- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC) / NACE No.2.
- 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
- Remove dust, blast media and loose materials.
- Feather edges to sound surrounding coating.
- Flash rust degree of maximum FR M (ISO 8501-4).
- Minor areas may be hand or power tool cleaned instead of abrasive blasting.
- Spot abrasive blasting to min. PSa 2 (ISO 8501-2) / SP 6 (SSPC).
- Water jetting to min. Wa 2 (ISO 8501-4).

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

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

Application

Mixing ratio
Base 55759 : Curing Agent 97050
(9.1 : 0.9 by volume)

Stir well before use.

Thinner
Hempel's Thinner 08080

Cleaner
Hempel's Thinner 08080

Pot life

Product temperature	20°C [68°F]
Pot life	2 hours

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 200-250 bar [2900 psi] Nozzle orifice: 0.015-0.021"
Brush	5%	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. Never thin more than allowed according to local environmental legislation. For brush or roller application, a suitable Thinner or Brush agent may be used if needed. Hempel's Brush & Roller Agent 99140 can be used to improve levelling. Consult Hempel for advice. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

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Film thickness

Specification range	Low	High	Recommended
Dry film thickness	50 micron [2.0 mils]	160 micron [6.4 mils]	100 micron [4.0 mils]
Wet film thickness	77 micron [3.1 mils]	245 micron [9.8 mils]	153 micron [6.1 mils]
Theoretical spreading rate	13 m²/L [530 sq ft/US gal]	4.1 m²/L [167 sq ft/US gal]	6.5 m²/L [265 sq ft/US gal]

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

- 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 [14°F] during application and curing.
- Beware of ice on the surface at low temperatures.
- The film formation may be adversely affected by light rain, high humidity and/or condensation during application and the following interval after application: “12 hours, 20°C/68°F”.

Relative Humidity:

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

Application remarks

- Two coats of the topcoat may be necessary to obtain full hiding power.

Drying and overcoating

Product compatibility

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

Drying time

Surface temperature		20°C [68°F]
Touch dry	min	60
Hard dry	min	120

Determined for dry film thickness 100 micron [4.0 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 [14°F]	0°C [32°F]	20°C [68°F]
Atmospheric medium				
Hempathane Fast Dry 55750	Min	20 h	12 h	4 h
	Max	No max	No max	No max

Overcoating times are indicative for products of the same generic chemistry when applied at the recommended DFT.
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.
- Condensation on the freshly applied coating should be avoided.

Overcoating details

- The surface must be clean before overcoating.

Other remarks

- 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	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. The shelf life printed on product labels is based on regional climate conditions. For advice, please consult Hempel.

Storage conditions

- The curing agent is sensitive to moisture. Store in a dry place and keep the can tightly closed until use.
- 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)	5.6 g CO_2e/m^2	0.029 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 webiste.

- 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.