

Hempalin Enamel 52140

Product characteristics

Description

Hempalin Enamel 52140 is a glossy, general purpose, alkyd topcoat forming a weather resistant coating. The product is flexible and resistant to salt water and spillage of mineral oil and other aliphatic hydrocarbons.

Complies with EU Directive 2004/42/EC, subcategory i.

Recommended use

Hempalin Enamel 52140 is recommended as finishing coat for alkyd systems on exterior and interior steel and woodwork in mildly to moderately corrosive environment e.g. engine rooms including tank tops, main engines and auxiliary machinery.

Service temperature:

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

Certificates / Approvals

- EC-type examined as a low flame spread material when used as part of a predefined paint system. Please refer to "Declaration of Conformity" on hempel.com for further details.

Features

- Glossy, general purpose topcoat.
- For mildly to moderately corrosive environment.
- For exterior and interior usage.

Product safety

Flash point 38°C [100°F]

VOC content

Legislation	Value	15% thinning, by volume	Limit value, phase II (2010) ^a
EU	429 g/L [3.58 lb/US gal]	494 g/L [4.12 lb/US gal]	500 g/L [4.17 lb/US gal]
US (coatings)	429 g/L [3.58 lb/US gal]		
US (regulatory)	429 g/L [3.58 lb/US gal]		
China	429 g/L [3.58 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. ^aEU Directive 2004/42/CE. 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

52140

Standard shade* / code

White 10000 **

Gloss

High-gloss

Volume solids

46 ± 2%

Specific gravity

1.1 kg/L [9 lb/US gal]

* Wide range of colours is available via Hempel's Multi-Tint® system.

** Colour stability may be affected by exposure to harsh chemical and/or high temperatures.

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Reference dry film thickness

30 micron [1.2 mils]

Aluminium shade / code

Aluminium grey 19000

Gloss

Please consult Hempel's Guideline on aluminium pigmented coatings.

Volume solids

40 ± 2%

Specific gravity

1 kg/L [8 lb/US gal]

Reference dry film thickness

30 micron [1.2 mils]

Surface preparation

Cleanliness

- According to Hempel's Specification.

New build:

- According to Hempel's Specification.

Maintenance and Repair

- According to Hempel's Specification.

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

Application

Mixing ratio

Stir well before use.

Thinner

Hempel's Thinner 08230

Cleaner

Hempel's Thinner 08230

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.018"
Air spray	15%	Not Applicable.
Brush/Roller	5%	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. To comply with Korean VOC regulation, thinning is limited to max. vol. 1%. 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	25 micron [1.0 mils]	40 micron [1.6 mils]	30 micron [1.2 mils]
Wet film thickness	50 micron [2 mils]	90 micron [3.5 mils]	70 micron [2.5 mils]
Theoretical spreading rate	18 m ² /L [730 sq ft/US gal]	11 m ² /L [450 sq ft/US gal]	15 m ² /L [610 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.

Application remarks

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

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Drying and overcoating

Product compatibility

- Previous coat: Recommended product is: Hempalin primer 12050, Hempalin Primer HI-Build 13200, Hempalin Undercoat 42460
- Subsequent coat: None.

Drying time

Surface temperature		10°C	20°C	30°C	40°C
		[50°F]	[68°F]	[86°F]	[104°F]
Touch dry	hours	6	2	1	½
Hard dry	hours	14	4	2	1½

Determined for dry film thickness 30 micron [1.2 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	20°C	30°C	40°C
		[50°F]	[68°F]	[86°F]	[104°F]
Atmospheric medium					
Hempalin Enamel 52140	Min	16 h	8 h	6 h	4 h
	Max	9 d	5 d	4 d	60 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 dry and clean prior to application.

Other remarks

- Hempel's Specification supersedes any recommendations given in the Product Data Sheets.

Storage

Shelf life

Ambient temperature	25°C	35°C
	[77°F]	[95°F]
Product	60 months	36 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.
- Must be stored under absolutely dry conditions, protect against seeping humidity.

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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.