

Hempaline Prepare 130

Product characteristics

Description

Hempaline Prepare 130 is an epoxy novolac holding primer with excellent adhesion and chemical resistance to a broad range of chemicals.

Recommended use

Hempaline Prepare 130 is recommended as a holding primer to maintain the blast of steel for internal tank linings where solvent free epoxies are used.

Service temperature:

- Maximum, dry exposure only: 205°C [401°F].
- Please contact Hempel for more information.

Features

- Superb mechanical properties
- Excellent chemical resistance
- Crude oil resistance up to 130°C [270°F].
- Optically Activated Pigment Shade 11153 contains an optically active pigment to enhance visual inspection by increasing the contrast of irregularities, coverage and defects. When illuminated with a Hempel specified UV flashlight, the fluorescent pigment is activated and creates a dramatic contrast between the fluorescent coating and any non-fluorescent coating or substrate. Illumination of the fluorescent pigment enables one to perform inspection even on wet paint film
- Touch-up and carry out repairs only in specific areas
- Improve return-to-service time in combination with fast-return-to-service products.
- Please consult your Hempel representative for details on the UV flashlight specification

Product safety

Flash point 26°C [79°F]

VOC content mixed product

Legislation	Value
EU	300 g/L [2.50 lb/US gal]
US (coatings)	300 g/L [2.50 lb/US gal]
US (regulatory)	300 g/L [2.50 lb/US gal]
China	300 g/L [2.50 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

17100

Product components

Base 17109
Curing Agent 97011

Standard shade / code

Brownish red 50630

Gloss

Flat

Volume solids

71 ± 2%

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Specific gravity

1.6 kg/L [14 lb/US gal]

Reference dry film thickness

50 micron [2.0 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.
- According to Hempel's Specification.

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 17109 : Curing Agent 97011
(4 : 1 by volume)

Stir well before use.

Thinner

Hempel's Thinner 08450
Hempel's Thinner 08630

Cleaner

Hempel's Tool Cleaner 99610
Hempel's Thinner 08450

Pot life

Product temperature	15°C [59°F]	20°C [68°F]	30°C [86°F]
Induction time	20 min	15 min	5 min
Pot life	3½ hours	3 hours	1 hour

Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 180 bar [2600 psi] Nozzle orifice: 0.017-0.019"
Brush	5%	Not Applicable.

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	50 micron [2.0 mils]	75 micron [3.0 mils]	50 micron [2.0 mils]
Wet film thickness	70 micron [3 mils]	110 micron [4 mils]	70 micron [3 mils]
Theoretical spreading rate	14 m²/L [570 sq ft/US gal]	9.4 m²/L [380 sq ft/US gal]	14 m²/L [570 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

- Optimal paint temperature for proper mixing, pumping and spraying is: 15-25°C [59-77°F].
- 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.

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Drying and overcoating

Product compatibility

- Previous coat: None.
- Subsequent coat: None or according to Hempel's specification.
Recommended products are: Hempaline Defend 400 37810, Hempaline Defend 630 37820, Hempadur 85671

Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]	40°C [104°F]
Touch dry	min	90	60	30	15
Hard dry	hours	11	5	3	1½

Determined for dry film thickness 50 micron [2.0 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					
Hempaline Prepare 130	Min	12 h	7 h	3½ h	2 h
	Max	120 d	120 d	60 d	36 d
Hempaline Defend 630 Cure 72	Min	12 h	7 h	3½ h	2 h
	Max	120 d	120 d	60 d	36 d
Hempaline Defend 630 Cure 24	Min	12 h	7 h	3½ h	2 h
	Max	120 d	120 d	60 d	36 d
Hempaline Defend 400 Cure 72	Min	12 h	7 h	3½ h	2 h
	Max	120 d	120 d	60 d	36 d
Hempaline Defend 400 Cure 24	Min	12 h	7 h	3½ h	2 h
	Max	120 d	120 d	60 d	36 d
Hempadur 85671	Min	12 h	7 h	3½ h	2 h
	Max	120 d	120 d	60 d	36 d

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]
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. 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)	8.3 g CO ₂ e/m ²	0.043 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.

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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 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.
- Tank linings.

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.