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_2e/m^2	0.043 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.

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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.