

# Hempaline Prepare 110

## Product characteristics

### Description

Hempaline Prepare 110 is a high performance epoxy concrete sealer which exhibits outstanding adhesion to concrete as well as to the subsequent topcoat of Hempaline epoxies.

### Recommended use

Hempaline Prepare 110 is recommended as sealer for concrete prior to application of other Hempaline epoxy products. Typical applications include internal tank linings, secondary containment areas and trenches.

## Product safety

**Flash point** 127°C [261°F]

### VOC content mixed product

Legislation	Value
EU	36 g/L [0.30 lb/US gal]
US (coatings)	36 g/L [0.30 lb/US gal]
US (regulatory)	36 g/L [0.30 lb/US gal]
China	36 g/L [0.30 lb/US gal]

According to specific legislation, see details in the Explanatory Notes available at Hempel website, [hempel.com](http://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

07810

### Product components

Base 07819  
Curing Agent 9780P

### Standard shade / code

Transparent 00000

### Gloss

Semi-gloss

### Volume solids

100%

### Specific gravity

1.1 kg/L [9 lb/US gal]

### Reference dry film thickness

150 micron [5.9 mils]

## Surface preparation

### Cleanliness

- Concrete: According to Hempel's Specification.

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

## Application

### Mixing ratio

Base 07819 : Curing Agent 9780P  
(1.5 : 1 by volume)

Stir well before use.

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## Thinner

No thinning

## Cleaner

Hempel's Tool Cleaner 99610

## Pot life

Product temperature	10°C [50°F]	20°C [68°F]	30°C [86°F]
Pot life	90 min	60 min	45 min

## Application method

Tool	Thinning max vol.	Application parameters
Airless spray	No thinning	Nozzle pressure: 200 bar [2900 psi] Nozzle orifice: 0.017-0.021"
Brush/Roller	No thinning	Not Applicable.

As tank lining, brush and roller application must only be limited to stripe coating and touch up areas or minor repairs. 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	75 micron [3.0 mils]	200 micron [7.9 mils]	150 micron [5.9 mils]
Wet film thickness	75 micron [3 mils]	200 micron [8 mils]	150 micron [6 mils]
Theoretical spreading rate	13 m <sup>2</sup> /L [530 sq ft/US gal]	5 m <sup>2</sup> /L [200 sq ft/US gal]	6.7 m <sup>2</sup> /L [270 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: 20-25°C [68-77°F].
- Surface temperature must be above 10°C [50°F] during application and curing.
- 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.

## Drying and overcoating

### Product compatibility

- Previous coat: None or according to Hempel's specification.
- Subsequent coat: None or according to Hempel's specification. Recommended products are: Hempaline Defend 400, Hempaline Defend 630, Hempaline Defend 640, Hempaline Defend 650

### Drying time

Surface temperature		10°C [50°F]	20°C [68°F]	30°C [86°F]	40°C [104°F]
Surface dry	hours	13	10	8	7
Through dry	hours	24	18	15	13
Fully cured	days	4	3	2½	2½

Determined for dry film thickness 150 micron [5.9 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 Defend 400 Cure 72	Min	27 h	18 h	18 h	18 h
	Max	28 d	21 d	18 d	14 d
Hempaline Defend 630 Cure 72	Min	27 h	18 h	18 h	18 h
	Max	28 d	21 d	18 d	14 d

Overcoating times are indicative for products of the same generic chemistry. Consult Hempel's specification for more information.

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## Drying conditions

- To obtain the drying time stated, it is important to maintain sufficient ventilation during application, drying and curing.

## Overcoating details

- The surface must be dry and clean prior to application.
- As tank lining, if the maximum overcoating interval is exceeded, roughening of the surface by sweep abrasive blasting is necessary to ensure intercoat adhesion".

## Other remarks

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

## Storage

### Shelf life

Ambient temperature	25°C [77°F]
Base	36 months
Curing Agent	18 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)	10.1 g CO <sub>2</sub> e/m <sup>2</sup>	0.053 lb CO <sub>2</sub> e/ft <sup>2</sup>

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.

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## 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.
- Vinyl ester.

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](http://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 <a href="http://www.hempel.com">www.hempel.com</a> and contain relevant information about the Product testing parameters
5.	Application Instruction	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>
6.	Generic technical guidelines (e.g. on application and surface preparation)	Where available, at <a href="http://www.hempel.com">www.hempel.com</a>

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](http://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.