

# Hempathane HS 55810

## Product characteristics

### Description

Hempathane HS 55810 is a two-component polyurethane topcoat, cured with aliphatic isocyanate, with very good gloss and colour retention.

### Recommended use

As a low VOC finishing coat for protection of structural steel in severely corrosive atmospheric environment.

### Service temperature:

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

### Certificates / Approvals

- Complies with the European Fire Standard EN 13501-1, reaction to fire classification, when used as part of a predefined paint system. B-s2, d0.

## Product safety

**Flash point** 34°C [93°F]

### VOC content mixed product

Legislation	Value
EU	369 g/L [3.08 lb/US gal]
US (coatings)	369 g/L [3.08 lb/US gal]
US (regulatory)	369 g/L [3.08 lb/US gal]
China	369 g/L [3.08 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. 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

55810

### Product components

Base 55819  
Curing Agent 95373

### Standard shade\* / code

White 10000 \*\*

### Gloss

High-gloss

### Volume solids

64 ± 2%

### Specific gravity

1.4 kg/L [12 lb/US gal]

### Reference dry film thickness

40 micron [1.6 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:

- According to Hempel's Specification.

### Maintenance and Repair

- According to Hempel's Specification.

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

\* Other shades are available, please contact your local Hempel representative.

\*\* High temperature may cause yellowing/discolouration.

# Hempathane HS 55810

## Application

### Mixing ratio

Base 55819 : Curing Agent 95373  
(4 : 1 by volume)

Stir well before use.

### Thinner

Hempel's Thinner 08080

### Cleaner

Hempel's Thinner 08880

### Pot life

Product temperature	20°C [68°F]
Pot life	4 hours

### Application method

Tool	Thinning max vol.	Application parameters
Airless spray	5%	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.017-0.021"
Brush	5%	Not Applicable.

If brush or roller application is used, more coats will be necessary to achieve the specified dry film thickness. 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	40 micron [1.6 mils]	50 micron [2.0 mils]	40 micron [1.6 mils]
Wet film thickness	60 micron [2.5 mils]	80 micron [3 mils]	60 micron [2.5 mils]
Theoretical spreading rate	16 m²/L [650 sq ft/US gal]	13 m²/L [530 sq ft/US gal]	16 m²/L [650 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 [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: "24 hours, 20°C/68°F".

### Relative Humidity:

- Relative humidity must be below 90% during curing.
- Relative humidity must be below 90% during application.

### Application remarks

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

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification. Recommended products are: Hempadur Fast Dry 17410, Hempadur Mastic 45880/1, Hempaprime Multi 500 45950/3
- Subsequent coat: None.

### Drying time

Surface temperature	20°C [68°F]
Touch dry	min 90
Hard dry	hours 5

Determined for dry film thickness 40 micron [1.6 mils] at standard conditions, see Hempel's Explanatory Notes for details.

### 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 dry and clean prior to application.

### Other remarks

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

# Hempathane HS 55810

## Storage

### Shelf life

Ambient temperature	25°C [77°F]
Base	36 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. Always check the best before date or expiry date on the label.

### Storage conditions

- The curing agent is sensitive to moisture. Store in a dry place and keep the can tightly closed until use.
- Product must be stored according to local legislation, at maximum 40°C [104°F], without direct sunlight and protected from rain and snow.

## Additional documents

Additional information is available at the Hempel website [hempel.com](http://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](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.