

# Hempalin Undercoat

## Product characteristics

### Description

Hempalin Undercoat 42460 is a fairly quick-drying alkyd paint.

### Recommended use

As a general purpose undercoating in alkyd paint systems on exterior and interior steelwork, wood, plaster, etc. in mildly to moderately corrosive environment.

### Service temperature:

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

## Product safety

**Flash point** 38°C [100°F]

### VOC content

Legislation	Value
EU	380 g/L [3.17 lb/US gal]
US (coatings)	380 g/L [3.17 lb/US gal]
US (regulatory)	380 g/L [3.17 lb/US gal]
China	380 g/L [3.17 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

42460

### Standard shade / code

White 10000

### Gloss

Flat

### Volume solids

52 ± 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:

- All damage of shopprimer and contamination from storage and fabrication should be thoroughly mechanically/chemically cleaned prior to final painting.
- Abrasive blasting to min. Sa 2½ (ISO 8501-1) / SP 10 (SSPC).
- Remove dust, blast media and loose materials.

### Maintenance and Repair

- Spot abrasive blasting to min. PSa 2 (ISO 8501-2) / SP 6 (SSPC).
- Minor areas can be cleaned by power tool to St 3 provided the surface is roughened and not polished.
- Remove dust, blast media and loose materials.

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

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## Application

### Mixing ratio

Stir well before use.

### Thinner

Hempel's Thinner 08230

### Cleaner

Hempel's Thinner 08230

### Application method

Tool	Application parameters
Airless spray	Nozzle pressure: 150 bar [2200 psi] Nozzle orifice: 0.015-0.018"
Air spray	Not Applicable.
Brush	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	30 micron [1.2 mils]	40 micron [1.6 mils]	40 micron [1.6 mils]
Wet film thickness	60 micron [2.5 mils]	75 micron [3 mils]	75 micron [3 mils]
Theoretical spreading rate	17 m <sup>2</sup> /L [690 sq ft/US gal]	13 m <sup>2</sup> /L [530 sq ft/US gal]	13 m <sup>2</sup> /L [530 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 5°C [41°F] during application and curing.

### Relative Humidity:

- Relative humidity must be below 90% during drying and curing.

## Drying and overcoating

### Product compatibility

- Previous coat: According to Hempel's Specification.
- Subsequent coat: According to Hempel's Specification.

### Drying time

Surface temperature		20°C [68°F]
Touch dry	hours	4

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

### 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 [77°F]
Product	60 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.

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## Additional documents

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

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