Hempel's Primer Undercoat

Product characteristics

Description
Hempel's Primer Undercoat is a quick drying, high opacity primer and undercoat. Provides durability and surface stability in preparation for overcoating with single component topcoats.

Recommended use
Suitable on glass fibre, wood and steel. For interior and exterior use above the waterline.

Service temperature:
- Minimum, recommended by Hempel for dry exposure: -50°C [-58°F].

Product safety

Flash point 40°C [105°F]

VOC content

Legislation	Value
EU	391 g/L [3.26 lb/US gal]

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.

Product data

Product code: 13201

Standard shade / code: White 10000

Volume solids: 49 ± 2%

Specific gravity: 1.3 kg/L [11 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.

New build:
- Uncoated surface: Sand and remove all dust.
- New wood: Saturate the dry, clean surface with a suitable wood treatment, allow to dry.
- Steel: Remove salt and other contaminants by (high pressure) fresh water cleaning. Remove all rust and loose material by abrasive blasting or power tool cleaning. Dust off residues.

Maintenance and Repair
- Previously coated surface: Abrade, clean and dry the surface.
- Spot repair and sand to obtain a uniform surface profile.

Application

Thinner
Hempel's Thinner 811 08111

Cleaner
Hempel's Thinner 811 08111

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Application method

Tool	Thinning max vol.
Brush	10%
Roller	10%
Paint pad	10%
Airless spray	15%

Keep thinning at an absolute minimum. The product can be applied by spray. Contact Hempel for more information. Spray data are indicative and subject to adjustment. Pressure is for a material temperature of 20°C [68°F].

Film thickness

	Recommended
Dry film thickness	40 micron [1.6 mils]
Wet film thickness	82 micron [3.3 mils]
Theoretical spreading rate	12 m²/L [489 sq ft/US gal]

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.

Relative Humidity:
- Relative humidity must be below 85% during drying and curing.

Application remarks
- Stir well before use.
- Prime porous surfaces with first coat of the product thinned with specified Hempel's Thinner: max 10%.
- Apply 2 full coats undiluted.
- Previously coated surface: Apply 2 full coats undiluted.
- Add thinner to assist application if necessary: max 5%.
- To obtain a smooth surface, sanding between coats is recommended (remove dust).
- Overcoat with chosen topcoat.

Drying and overcoating

Product compatibility
- Previous coat: Recommended product is:
- Subsequent coat: Recommended products are:

Drying time

Surface temperature		20°C [68°F]	10°C [50°F]
Touch dry	hours	3	6
Ready to sand	hours	24	-

Determined for dry film thickness 40 micron [1.6 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]
Atmospheric medium			
Hempel's Primer Undercoat	Min	8 h	4 h
	Max	5½ d	72 h
Hempel's Multicoat	Min	48 h	24 h
	Max	13 d	7 d
Hempel's Brilliant Gloss	Min	8 h	4 h
	Max	5½ d	72 h
Hempel's Non-Slip Deck Coating	Min	8 h	4 h
	Max	5½ d	72 h
Hempel's Bilge & Locker Paint	Min	48 h	24 h
	Max	13 d	7 d

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
- If the maximum overcoating interval is exceeded, roughening of the surface is necessary to ensure intercoat adhesion.

Other remarks
- The surface must be clean before overcoating.

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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. Storage at elevated temperatures may reduce shelf life. The shelf life printed on product labels is based on regional climate conditions. For advice, please consult Hempel.

Storage conditions

- Product must be stored according to local legislation, at minimum 5°C [41°F], without direct sunlight and protected from rain and snow.
- The product must be stored in accordance with Safety Data Sheet, label and local regulations. Keep the containers in a dry, shaded, cool, well-ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

Carbon Footprint

Dry film thickness	1 µm	1 mil
GWP (Global Warming Potential)	11.5 g CO_2e/m^2	0.06 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.

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 Knowledge Center: https://www.hempel.com/knowledge-center . The documents below can be found in the Technical Guidelines section: https://www.hempel.com/knowledge-center/technical-guidelines or at the Hempel website.

- Explanatory Notes for Product Data Sheet.
- Application methods.

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.