

Hempel's Dura Satin Varnish

Product characteristics

Description

Hempel's Dura-Satin Varnish is a quick-drying, silk gloss urethane alkyd varnish. Resistant to wear and abrasion within hours of application. Good resistance to seawater, sunlight and adverse weather conditions.

Recommended use

For use on new wood as well as on previously varnished wood, interior and exterior, above the waterline.

Product safety

Flash point 40°C [104°F]

VOC content

Legislation	Value
EU	451 g/L [3.76 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.

Product data

Product code

02040

Standard shade / code

Transparent 00000

Gloss

Semi-flat

Volume solids

42 ± 2%

Specific gravity

0.9 kg/L [8 lb/US gal]

Reference dry film thickness

25 micron [1.0 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.
- Plywood: Seal the dry, clean surface with suitable wood sealer.
- Teak: Degrease the surface thoroughly with a suitable degreaser.
- The surface must be dry and clean prior to application.
- Moisture content of the wood must be below 16%.

Maintenance and Repair

- Previously coated surface: Abrade, clean and dry the surface.
- Previously damaged varnished wood: Wood treatment may be necessary.

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Application

Thinner

Hempel's Thinner 811 08111

Cleaner

Hempel's Thinner 811 08111

Application method

Tool	Thinning max vol.
Brush	20%
Paint pad	20%

Keep thinning at an absolute minimum. The product can be applied by spray. Contact Hempel for more information.

Film thickness

	Recommended
Dry film thickness	25 micron [1.0 mils]
Wet film thickness	59 micron [2.4 mils]
Theoretical spreading rate	17 m ² /L [693 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.
- The film formation may be adversely affected by light rain, high humidity and/or condensation during application and the following interval after application: "3-4 hours, 20°C/68°F".

Relative Humidity:

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

Application remarks

- Stir well before use.
- Apply first coat of the product thinned with specified Hempel's Thinner: max. 20%.
- Apply a second coat of the product thinned: max.10%.
- Finally apply 3 coats of the undiluted product.
- Add thinner to assist application if necessary: max 5%.
- To obtain a smooth surface, sanding between coats is recommended (remove dust).
- Previously coated surface: Apply 3 coats of the undiluted product.

Drying and overcoating

Product compatibility

- Previous coat: Recommended products are: Hempel's Wood Impreg (for new wood), Hempel's Sealer (for plywood)
- Subsequent coat: None.

Drying time

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

Determined for dry film thickness 25 micron [1.0 mils] at standard conditions, see Hempel's Explanatory Notes for details. Any masking tape used during paint application should be removed while the paint is still in the wet condition.

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. For advice, please consult Hempel.

Storage conditions

- 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)	12.9 g CO ₂ e/m ²	0.067 lb CO ₂ e/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 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.
- Further information: Hempel Yacht Paint Manual and hempelyacht.com

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.