

## Technical information

# Hesse FANTASTIC-NATURA dark wood DA 48840

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071

## Product description

FANTASTIC-NATURA dark wood is a solvent-based, low-fire scratch-resistant PUR natural wood effect varnish. The aromatic-free and lightfast topcoat is ideal for dark wood types. The natural character, wood feel and wood color tone remain almost unchanged. Application on light or bleached types of wood extends the range of possible uses.

## Areas of application

FANTASTIC-NATURA dark wood can be used on almost all interior wood surfaces. It can also be used as a brightening primer, e.g. in combination with Hesse FANTASTIC-CLEAR with its four different gloss levels or FANTASTIC-CLEAR ULTRAMATT.

## Substrate material

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- bleached
- light deciduous woods with fine pores
- light deciduous woods with coarse pores
- Engineered veneer/fine line
- Conifers

## Surface Preparation

### Surface preparation

Clean, dry wood, free from oil, grease, wax and silicones. Sanded in accordance with regulations and free of sanding dust.

### Substrate sanding grits










120 - 180

### Lacquer sanding grit



280 - 320

## Application

| Application                              |   | Spray nozzle size | Spray pressure | Atomizing pressure |
|--|---|-------------------|----------------|--------------------|
| 2C line                                  |   |                   |                |                    |
| Airless                                  |  | 0.23 - 0.28 mm    |                |                    |
| Airless low pressure                     |  |                   |                |                    |
| Airmix                                   |  | 0.23 - 0.28 mm    | 60 - 100 bar   | 2 - 2.5 bar        |
| Compressed air spraying                  |  | 1.8 - 2 mm        | 1.8 - 2 bar    |                    |
| High-performance automatic spraying unit |  |                   |                |                    |
| Automatic spray gun                      |  |                   |                |                    |
| Spraying robot                           |  |                   |                |                    |

## Times

### Complete drying



7 d / 20 °C

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## Finishing

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With itself. **A single overcoat, preferably with series DE 4877x(gloss level); DE 48770-0; DE 4259x(gloss level) and DE 4503x(gloss level) is possible after > 48 h intermediate drying at 20 °C.** Deviating transparent Hesse top coats and lacquers must be tested.

## Processing instructions

Hardening of FANTASTIC-NATURA dark wood in a mixing ratio (by volume) of 10 : 1 with PU Hardener DR 4071 is recommended! However, FANTASTIC-NATURA dark wood can optionally be processed in a mixing ratio (by volume) of 10 : 1 with PU Hardener DR 4070. When hardening with DR 4070, we do not recommend coating wooden surfaces in damp rooms or kitchens. A slight deviation in the brightening effect in the hardening between DR 4071 and DR 4070 cannot be ruled out. A hardener type should therefore be agreed within a project.

**Please note that Hesse FANTASTIC-NATURA dark wood DA 48840 is only tested and approved for coatings in ship interiors in a mixing ratio (volume) of 10 : 1 with DR 4071.**

## Particular instructions

Adding a maximum of 2 % **SUN-EX ZD 9501** Light protection agent in relation to the base lacquer can be effective in delaying wood discoloration due to UV radiation. **It is not possible to apply a combination coating of FANTASTIC-NATURA DA 48660 with FANTASTIC-NATURA dark wood DA 48840!**

This product is only permitted to be combined with other approved and technically suitable products if it is to be used as a low-flammable coating for seagoing vessels in accordance with SOLAS 74 Reg. II-2/3, II-2/5, II-2/6 and X/3, latest version, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Circ. 1120. The maximum application amount in wet film when this product is used as a low-flammable coating for seagoing vessels is 250 g/m<sup>2</sup>.

"A risk assessment has been conducted in accordance with Directive 2014/90/EU, Annex II, Section 3. The hardened and dried coating poses neither a physical or health hazard nor a hazard to the environment."














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|                                     |   |                               |
|-------------------------------------|---|-------------------------------|
| Flow time (+/- 15%)                 |    | 32 s / DIN4                   |
| Proportion of renewable raw materi- |    | 5.80 %                        |
| NFA                                 |    | 17.7 %                        |
| VOC EU                              |   | 82.27 %                       |
| VOC FR                              |    | A+                            |
| conditions of transport             |    | frost-free - up to max. 30 °C |
| Shelf life in weeks                 |    | 52                            |
| Storage temperature                 |    | 16 - 40 °C                    |
| Number of coats (max)               |    | 3                             |
| Amount per layer (minimum)          |    | 80 g/m <sup>2</sup>           |
| Amount per layer (max)              |    | 150 g/m <sup>2</sup>          |
| Total application volume            |   | 450 g/m <sup>2</sup>          |
| Mixing ratio (by volume)            |  | 10 : 1 PU Hardener DR 4071    |
| Mixing information (gravimetric)    |  | 100 : 11 PU Hardener DR 4071  |

## Particular properties / testing standards

| Sign  | Product standard / basis   | Sign  | Product standard / basis   |
|---|--|---|--|
|  | DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands) |  | Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials             |
|  | Toy safety as per DIN EN 71-3  |  | Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive) |

## Sample process

### Walnut, solid

Wood sanding: grain 120 - 150

Primer: 1 x 100 - 130 g/m<sup>2</sup> FANTASTIC-NATURA dark wood DA 48840, mixing ratio (volumetric) 10 : 1 with PU hardener DR 4071, addition of 5 - 10 % DV 4994 based on the lacquer/hardener mixture

Intermediate drying: > 1 h / 20 °C

Intermediate sanding: Grit 320 - 400

Final coat: 1 x 100 - 130 g/m<sup>2</sup> FANTASTIC-NATURA dark wood DA 48840, mixing ratio (volumetric) 10 : 1 with PU hardener DR 4071, addition of 5 - 10 % DV 4994 based on the lacquer/hardener mixture

Ready for packaging: after at least 16 h / 20 °C

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## Ordering information

| Order number | Gloss level 60° (Gloss +/-5) | Gloss level |
|--------------|------------------------------|-------------|
| DA 48840     |                              | dull matt   |

## Accessories

|                          | Order number | Product description |
|--------------------------|--------------|---------------------|
| <b>hardeners</b>         | DR 4071      | PU Hardener         |
| <b>Thinners</b>          | DV 4900      | PU Thinner          |
|                          | DV 4994      | PU Thinner          |
|                          | DV 4935      | PU Special thinner  |
| <b>Retarder</b>          | DV 4909      | PU Retarder         |
| <b>Equipment cleaner</b> | RV 1         | Cleaning thinner    |

## General instructions on workmanship

PU lacquers should not be applied and dried at material and room-temperatures below 18 °C and 40 % RH. Ideal values are: 20 - 25 °C, 50 - 65 % RH. Deviations will result in drying or hardening errors. In order to avoid adhesion problems, please sand the PU lacquered surfaces before applying fresh lacquer and apply lacquer to the sanded surfaces as soon as possible. Old lacquer and hardener mixtures affect the surface quality (adhesion/resistance). Freshly bleached substrates must undergo intermediate drying for at least 48 h at 20 °C before coating with suitable PU lacquers. If stored correctly (at least 20 °C room temperature), the final hardness of the coating is achieved after a week.

Please apply a test coat under real conditions!

Our technical information is continually adapted to keep up to date with the latest technology and statutory regulations. The indicated values are no specification, but typical product data. The latest version is always available online at [www.hesse-lignal.de](http://www.hesse-lignal.de) or talk to your local account manager. This information is for advice and is based on the best knowledge available and careful research in line with the current state of the art. This information cannot be held as legally binding. We also refer you to our terms and conditions of business. Material safety data sheet is provided in accordance with EC regulation no. 1907/2006.

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