

## 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				

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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 (volumetric) of 10 : 1 with PUR Hardener DR 4071 is recommended! However, FANTASTIC-NATURA dark wood can optionally be processed in a mixing ratio (volumetric) of 10 : 1 with PUR Hardener DR 4070. When hardening with DR 4070, we do not recommend varnishing 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.

## Particular instructions

To delay wood discoloration under UV radiation, the light stabilizer SUN-EX ZD 9501 with a maximum addition of 2 % in relation to the base coat is also effective. A combination structure with FANTASTIC-NATURA DA 48660 and FANTASTIC-NATURA dark wood DA 48840 is not possible!

## Technical data

Flow time (+/- 15%)		32 s / DIN4
Proportion of renewable raw materi-		0 %
Non-volatile proportion		17.7 %
VOC FR		C
conditions of transport		frost-free - up to max. 35 °C
Shelf life in weeks		26
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>
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Mixing information (gravimetric)		100 : 11 PU Hardener DR 4071


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## Particular properties / testing standards

Sign	Product standard / basis	Sign	Product standard / basis
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)		Toy safety as per DIN EN 71-3

## 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

## 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!

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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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