

## Technical information

# Hesse FANTASTIC-NATURA DA 48660

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

## Product description

FANTASTIC-NATURA has a solvent-based formulation for a non-accentuating scratch-resistant PU natural wood effect. This aromatics-free and light fast multicoat lacquer can be used on light, bleached and even dark woods without any problems. The natural character, appearance and colour tone of the wood remain virtually unaltered. Intense cross-linking means that extraordinarily good chemical and mechanical resistance can be achieved using FANTASTIC-NATURA.

## Areas of application

FANTASTIC-NATURA can be used on almost all indoor wooden furniture, as well as on carcasses and kitchen cabinet fronts. It can also be used as a lightening basecoat in combination with Hesse FANTASTIC-CLEAR in the four different gloss levels or with FANTASTIC-CLEAR ULTRAMATT, for example.

## 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
- Conifers

## Surface Preparation

Substrate sanding grits  120 - 180

Lacquer sanding grit  280 - 320

## Application

Application	Spray nozzle size	Spray pressure	Atomizing 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	
Automatic spray gun			

## Times

Pot life  8 h / 20 °C

Drying  2 h / 20 °C

Stackable after  16 h / 20 °C

Complete drying  7 d / 20 °C

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## Finishing

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With another coat of the same. Recoating preferably using DE 4877x(gloss level), DE 48770-0, DE 4259x(gloss level) and DE 4503x(gloss level) is possible. Any other transparent Hesse top coats and multicoat lacquers will need to be tested. Combining FANTASTIC-NATURA lacquer with PU Natural wood effect DE 42900-0003 / DA 400-1 is not possible!

## Processing instructions

It is advisable to harden FANTASTIC-NATURA at a mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071. FANTASTIC-NATURA can however be optionally hardened at a mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070 if so desired. We would advise against coating wood surfaces in damp rooms or kitchen areas at such hardening with DR 4070. A slight deviation in the brightening effect between hardening with DR 4070 as opposed to the preferable DR 4071 cannot be excluded.

Should the intention be for application of FANTASTIC-NATURA via a spraying machine, we recommend the use of Thinner DV 4935. Sieving of FANTASTIC-NATURA at 50 m and clogging of the filters or screens on the sprayer have a negative influence on its natural wood effect!

This product must only be combined with other approved and technically suitable products when used as a flame retardant coating material for seagoing vessels according to the latest version of SOLAS 74/88 Reg. II-2/3, II-2/5 and II-2/6, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7 and IMO Resolution MSC.97(73)-(2000 HSC-Code) 7. The maximum application amount in wet film when using this product as a flame retardant coating material for seagoing vessels is 250 g/m<sup>2</sup>. This product is only suitable as a flame retardant coating for seagoing vessels when the default hardening is used, not the optional hardenings!

## Particular instructions

Adding 0.5 % SUN-EX ZD 9501 Light protection agent in relation to the base lacquer can be effective in delaying wood discoloration due to UV radiation.

**FANTASTIC-NATURA must be stirred carefully before mixing with hardener. We also recommend stirring FANTASTIC-NATURA mixed with hardener after a longer processing pause! A combination build-up with Hesse Natural Wood Effect DE 42900-0003 / DA 400-1 and FANTASTIC-NATURA is not possible!**

**"A risk assessment was undertaken according to Directive 2014/90/EU, Annex II, Section 3. This coating does not pose a physical risk to health nor a risk to the environment when cured and dried."**














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### Technical data

Flow time (+/- 15%)		32 s / DIN4
Yield per coat		6 - 9 m <sup>2</sup> /l The spreading rate is heavily dependent on the type of application. The specifications relate to a liter of ready-for-use product, if necessary including hardener and thinner.
Proportion of renewable raw materi-		0.778 %
Non-volatile proportion		13.8 %
VOC FR		A+
conditions of transport		frost-free - up to max. 35 °C
Shelf life in weeks		52
Storage temperature		16 - 40 °C
Number of coats (max)		2
Amount per layer (minimum)		100 g/m <sup>2</sup>
Amount per layer (max)		150 g/m <sup>2</sup>
Total application volume		300 g/m <sup>2</sup>
Mixing ratio (by volume)		10 : 1 PU Hardener DR 4071
Mixing information (gravimetric)		100 : 11 PU Hardener DR 4071








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## Particular properties / testing standards

Sign	Product standard / basis
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)
	Toy safety as per DIN EN 71-3
	Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials
	Flame retardant to B1 according to DIN 4102; on suitable substrates.
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)
	Geeignet als Oberflächenbehandlungsmittel von Holz für Arbeitsflächen in Lebensmittelverarbeitenden Betrieben und darf dabei in direkten Kontakt mit Lebensmitteln aller Art kommen.
	French VOC classification according to directive 2011-321

## Sample process

### Type of wood: solid oak

Wood sanding: 120 - 150 grit

Basecoat: 1 x 100 - 130 g/m<sup>2</sup> FANTASTIC-NATURA DA 48660, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 10 - 20 % Thinner DV 494 / DV 4994 in relation to the lacquer/hardener mixture

Intermediate drying: > 2 h / 20 °C

Lacquer sanding: 320 - 400 grit

Top coat: 1 x 100 - 130 g/m<sup>2</sup> FANTASTIC-NATURA DA 48660, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 10 - 20 % Thinner DV 494 / DV 4994 in relation to the lacquer/hardener mixture

Packable: after at least 16 h / 20 °C

## Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DA 48660			dull matt

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## 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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