

>Product description

FANTASTIC-NATURA has a solvent-based formulation for a **non-accentuating 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.

>Surface Preparation

| | |
|----------------------------------|-----------|
| Substrate sanding grits from-to | 120 - 180 |
| Lacquer sanding (grit) from - to | 280 - 320 |

>Finishing

| | |
|-----------|--|
| Finishing | With itself. Recoating preferably using DE 4877x(gloss level), DE 48770-0, DE 4259x(gloss level) and DE 4503x(gloss level) is possible. Deviating transparent Hesse top coats and multicoat lacquers will need to be tested. |
|-----------|--|

>Times

| | |
|-----------------|----------------|
| Usage time | 8 h / 20 °C |
| Pot life | 8 h / 20 °C |
| Drying | 2 h / 20 °C |
| Stackable after | > 16 h / 20 °C |
| Complete drying | 7 d / 20 °C |

>Application

| Application | Nozzle size in mm | Spray pressure in bar | Atomising pressure in bar |
|-------------------------|-------------------|-----------------------|---------------------------|
| Spraying | | | |
| Air mix | 0,23 - 0,28 | 60 - 100 | 2,0 - 2,5 |
| Compressed air spraying | 1,8 - 2,0 | 1,8 - 2,0 | |
| Automatic spray gun | | | |

>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 to apply FANTASTIC-NATURA using a spraying machine, we recommend the use of Thinner DV 4935.

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/m². **This product is only suitable as a flame retardant coating for seagoing vessels when the default hardening is used, not the optional hardenings!**

Technical information

Hesse FANTASTIC-NATURA DA 48660

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

>Technical data

| | |
|---|--|
| Proportion of renewable raw materials % | 0.8 |
| Flow time (+/- 15 %) | 32 s / DIN 53211 - 4 mm |
| Appearance | colourless |
| Density series kg/l | 0.923 |
| Yield per coat | 6 - 9 m ² /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. |
| Form of delivery | fluid |
| Non-volatile content series % | 14 |
| VOC EU % | 86 % |
| VOC FR | A+ |
| Shelf life in weeks | 52 |
| Number of coats (max) | 2 |
| Amount per layer (minimum) | 100 g/m ² |
| Amount per layer (max) | 150 g/m ² |
| Total application volume | 300 g/m ² |
| Mixing ratio (by volume) | 10 : 1 PU Hardener DR 4071 |
| Mixing ratio (gravimetric) | 100 : 11 PU Hardener DR 4071 |

>Ordering information

| Order number | Gloss level 60° (Gloss) | Gloss level | Container Size |
|--------------|-------------------------|-------------|-------------------------|
| DA 48660 | 0 - 3 | dull matt | 1 l, 4.992 l, 5 l, 25 l |

>Hardeners

| Order number | Product description | Container Size |
|--------------|---------------------|-------------------------------------|
| DR 4071 | PU Hardener | 0.1 l, 0.5 l, 1 l, 2.5 l, 5 l, 15 l |

>Thinners

| Order number | Product description | Container Size |
|--------------|---------------------|----------------------|
| DV 490 | PU Thinner | 1 l, 5 l, 15 l, 25 l |
| DV 4900 | PU Thinner | 1 l, 5 l, 15 l, 25 l |
| DV 4994 | PU Thinner | 1 l, 5 l, 15 l, 25 l |
| DV 4935 | PU Thinner | 5 l, 15 l, 25 l |

>Retarder

| Order number | Product description | Container Size |
|--------------|---------------------|----------------|
| DV 4909 | PU Retarder | 1 l, 5 l, 25 l |

>Equipment cleaner

| Order number | Product description | Container Size |
|--------------|---------------------|-----------------|
| RV 1 | Cleaning thinner | 5 l, 15 l, 25 l |

>Cleaning agent and care product

| Order number | Product description | Container Size |
|--------------|---------------------|-----------------------|
| GR 1900 | Cleaning agent | 1 l, 2.5 l, 3 l, 25 l |

>Particular instructions

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

"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."

>Sample process

Type of wood: solid oak

Wood sanding: 120 - 150 grit

Basecoat: 1 x 100 - 130 g/m² 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/m² 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

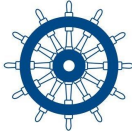





Packable: after at least 16 h / 20 °C

>General information

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!

>Particular properties and/or testing standards

| Test standard / basis | Testing laboratory | Mark | Report | No. |
|---|--|--|--|---|
| EC type examination certificate (module B); coating agent for seagoing vessels according to IMO Resolution MSC.307(88)-(FTP-Code 2010). | Trade association transport and traffic; Ship Safety Division, Hamburg |  | Approval No. U.S. Coast Guard Approval No. | 116573-00 164.112/ EC0736/ 116573-00 |
| Toy safety DIN EN 71-3 (2014-12) | TÜV Rheinland LGA |  | | |
| Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials | MPA-Stuttgart |  | Classification: | in testing |
| Flame retardant to B1 according to DIN 4102; on suitable substrates. | MPA-Stuttgart |  | Test certificate no. certificate of compliance | in testing |
| DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands) | HESSE |  | | |
| Geeignet als Oberflächenbehandlungsmittel von Holz für Arbeitsflächen in lebensmit- | ISEGA |  | | |

Technical information

Hesse FANTASTIC-NATURA DA 48660

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

>Particular properties and/or testing standards

| Test standard / basis | Testing laboratory | Mark | Report | No. |
|---|--------------------|------|--------|-----|
| telverarbeitenden Betrieben, und darf dabei in direkten Kontakt mit Lebensmitteln aller Art kommen. | | | | |

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 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. Safety data sheet is provided in accordance with EC regulation no. 1907/2006.