

## Technical information

# Hesse FANTASTIC-COLOR DB 4888x(gloss level)-(colour)

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



## Product description

FANTASTIC-COLOUR is a light fast and very well-balanced, scratch resistant two-component colour lacquer with impressive opacity and fast drying. The acrylate-based product's particular distinguishing features are its outstanding adhesion on vertical surfaces together with excellent levelling on horizontal surfaces. FANTASTIC-COLOUR is suitable for top coating and is therefore the right colour lacquer for very sophisticated and high-quality colour lacquer finishes with an impressive feel and metal marking resistance. FANTASTIC-COLOR can also be applied directly onto sanded, bare MDF edges and surfaces.

## Areas of application

FANTASTIC-COLOR meets the highest colour lacquer demands in every relevant product feature and can be used for all interior fittings, including kitchens and bathrooms and for coating the interior fixtures aboard vessels.

## Area of application

- Internal fit-out
- Kitchen and bathroom
- Furniture
- The fitting out of ship interiors
- Special applications




## Substrate material

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- Exotic / tropical wood
- bleached
- light deciduous woods with fine pores
- light deciduous woods with coarse pores
- Engineered veneer/fineline
- Conifers
- Teak
- Wenge
- Hardboard
- HDF
- MDF
- OSB
- Particle board
- ABS
- Priming foil
- Melamine foil
- Paper foil

## Surface Preparation

### Surface preparation

Clean, dry wood, depending on species and application method. Perform cleaning by sanding on foil or melamine before coating.

<b>Substrate sanding grits</b>	 150 - 320
<b>Lacquer sanding grit</b>	 320 - 400
<b>Comments on sanding</b>	 In case of direct coating on cleaned and sanded foils, please make a test coating to check the adhesion!








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## Application

Application		Spray nozzle size	Spray pressure	Atomizing pressure
<b>Verarbeitung</b>				
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

Pot life		6 h / 20 °C
Usage time		6 h / 20 °C
Drying		2 h / 20 °C
Stackable after		16 h / 20 °C
Complete drying		7 d / 20 °C

## Finishing

### Finishing

Fundamentally on its own. Should absolute metal marking and colour abrasion resistance, improved chemical resistance for high-demand surfaces or a different gloss level be required, then we recommend top coating with a transparent and light fast PU Multicoat lacquer up to gloss level satin (40 - 59 gloss), e.g. using Hesse UNA-PUR DE 55x(gloss level) / DE 4259x(gloss level), MEGA-PUR DE 56x(gloss level) / DE 4503x(gloss level) FANTASTIC-CLEAR DE 4877x(gloss level) or the top coats FANTASTIC-CLEAR ULTRAMATT DE 48770-0 and PU NANO-TOP DU 520 / DU 4554x(gloss level).

**It should be noted here that lacquer sanding is imperative when finishing matt FANTASTIC-COLOR surfaces with DE 48770-0 and DU 520 / DU 4554x(gloss level)!**

After a drying time of > 6 h / 20 °C, FANTASTIC-COLOR can if necessary be recoated using the following Hesse high gloss systems: FANTASTIC-BRILLANT DU 48799, ADAMANT DU 48889, PU Brillant-Colour DB 44099-(colour tone) and HYDRO-PU Brilliant lacquer HDE 54799.

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## Processing instructions

Hardening at 5 : 1 with PU Hardener DR 4076-0001 after previously mixing in 5 % Glass lacquer additive EL 460-0025 with the lacquer components also enables direct coating on glass after it has been properly cleaned. We recommend using Cleaning thinner ZD 101 to clean glass surfaces prior to application. FANTASTIC-COLOR can also be applied at a mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070. **Direct application on untreated MDF should only be performed at a mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071!**

The thixotropic properties of FANTASTIC-COLOR mean that it tends to require a higher addition of thinner in comparison to other lacquer systems. The following additive quantities (in relation to the lacquer/hardener mixture) have proven to be effective in practice.

Coating of small parts (normal temperature around 20 °C +/- 2 °C): addition of circa 20 - 30 % Thinner DV 4900

Coating of small parts (high temperatures > 25 °C): addition of circa 20 - 30 % Thinner DV 4935

Coating of large components (temperatures around 20 °C +/- 2 °C): addition of circa 30 % Thinner DV 4935

Coating of very large components (temperatures > 25 °C): addition of up to 50 % Thinner DV 4935 is possible.

## Particular instructions

Cleaning concentrate GR 1901 can be used in a ratio of 20 parts water and 1 part cleaning concentrate to remove fingerprints and grease spots (caused for instance during assembly work) without leaving streaks.

Use a dampened gauze or cotton cloth to apply the water/cleaner solution and clean the surface. Then use a dry gauze or cotton cloth with light pressure to rub it uniformly dry.

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 Reg. II-2/3, II-2/5, II-2/6 and X/3, as amended, 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 using this product as a flame retardant coating material for seagoing vessels is 100 g/m<sup>2</sup>.

"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		depending on Gloss Level and colour tone
Working viscosity		22 s / 4 mm
Yield per coat		6 - 14 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-		0.006 %
Non-volatile proportion		34.9 - 53 %
VOC FR		C
conditions of transport		frost-free - up to max. 35 °C
Shelf life in weeks		52
Storage temperature		16 - 40 °C
Number of coats (max)		4
Amount per layer (minimum)		80 g/m <sup>2</sup>
Amount per layer (max)		180 g/m <sup>2</sup>
Total application volume		600 g/m <sup>2</sup>
Mixing ratio (by volume)		10 : 1 PU Hardener DR 4071
Mixing information (gravimetric)		100 : 9 PU Hardener DR 4071







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## Particular properties / testing standards

Sign	Product standard / basis
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)
	Toy safety as per DIN EN 71-3
	Formulation is free of: wood preservatives, toxic heavy metals, phthalate plasticizers, formaldehyde, CMR substances in Categories 1A + 1B and volatile aromatic and halogenated organic compounds.
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)
	Flame retardant to B1 according to DIN 4102; on suitable substrates.
	Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials

## Sample process

### Laminated MDF cabinet front in RAL 9016, matt

Surface sanding: 320 - 400 grit (dust removal)

Edge and profile sanding: 150 - 180 grit (dust removal)

Basecoat: 1 x 150 - 200 g/m<sup>2</sup> FANTASTIC-FILL DP 4755-9343, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 15 % Thinner DV 4900 / DV 490 to the lacquer/hardener mixture

Drying: > 2 h / 20 °C, preferably 16 h / 20 °C

Filler sanding: 320 - 400 grit (dust removal)

Basecoat: 1 x 150 - 200 g/m<sup>2</sup> Hesse FANTASTIC-FILL DP 4755-9343, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 15 % Thinner DV 4900 / DV 490 to the lacquer/hardener mixture

Drying: > 2 h / 20 °C, preferably 16 h / 20 °C

Filler sanding: 320 - 400 grit (dust removal)

Colour and top coat: 1 x 120 - 180 g/m<sup>2</sup> Hesse FANTASTIC-COLOR DB 48882-9016, mixing ratio (by volume) 10 : 1 with Hesse PU Hardener DR 4071 and the addition of 20 - 30 % Thinner DV 4900 / DV 490 or DV 4935 to the lacquer/hardener mixture

Complete drying: > 16 h / 20 °C

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## Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DB 48882-9010	9010		matt
DB 48882-9016	9016		matt
DB 48885-100	WEISS	25	silk matt
DB 48885-101	GELB GRUENSTICH	25	silk matt
DB 48885-102	SCHWARZ	25	silk matt
DB 48885-103	OXIDGELB	25	silk matt
DB 48885-104	GRUEN	25	silk matt
DB 48885-105	BLAU	25	silk matt
DB 48885-106	OXIDROT	25	silk matt
DB 48885-109	VIOLETT	25	silk matt
DB 48885-110	BLAU	25	silk matt
DB 48885-201	GELB	25	silk matt
DB 48885-207	ORANGE	25	silk matt
DB 48885-208	ROT(BLAUSTICHIG)	25	silk matt
DB 48885-210	VIOLETT(BLAUSTICHIG)	25	silk matt
DB 48885-308	ROT(GELBSTICHIG)	25	silk matt
DB 48885-501	GELB(ROTSTICHIG)	25	silk matt
DB 48885-9005	9005		silk matt
DB 48885-9010	9010	25	silk matt
DB 48885-9016	9016	25	silk matt
DB 48885-9343	WEISS	25	silk 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 4935	PU Special thinner
<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!

For MDF substrates: With MDF coatings, you can avoid painting faults and edge breaks if you observe the following: Selection of an MDF quality suitable for the field of application, see manufacturer data on EU standard EN 622-5 pt.4 Test methods EN 317 (requirements on thickness swelling). Ideal panel moisture 5 - 7 %. If possible coat the MDF all around, the backs should at least receive a clear coating. Avoid sharp edges and milling grooves, round-off wherever possible. Coat edges and milling grooves 2 x with primer, do not sand through, if need be, prime again. Thick boards that have been built by gluing together several thinner boards are, due to the variance in tension, susceptible to edge ridging. It is better to select a single MDF board of the appropriate thickness. Panels that have been glued together should always be sanded flat at the edges and colourlessly pre-insulated. Any water introduced by the gluing process must be allowed to evaporate prior to coating. Store filler-coated surfaces in an air conditioned location and apply the final coat in a timely manner.

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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