

## Technical information

# Hesse FANTASTIC-BRILLANT DU 48799

Mixing ratio (by volume): 4 : 1 PU Hardener DR 4071

## Product description

FANTASTIC-BRILLANT is a solvent formulated, very scratch resistant transparent high gloss coating. When hardened with PU hardener DR 4071, FANTASTIC-BRILLANT is a coordinated addition to the FANTASTIC family and an ideal topcoat for FANTASTIC-COLOR. After drying, this light fast high gloss coating is polishable and able for buffing on request. Supplementary hardening options additionally enable processors to mix and adapt FANTASTIC-BRILLANT to individual process conditions and product mixer and to adapt it to the situation. The good ability to stay on vertical surfaces makes FANTASTIC-BRILLANT process-safe.

## Areas of application

FANTASTIC-BRILLANT can be used in the complete field of shop and interior fittings, including kitchens and bathrooms, as a final coat on solvent-based Hesse PU color lacquers or on clear Hesse PU primers.

## Area of application

- Internal fit-out
- Kitchen and bathroom
- Furniture
- Special applications

## 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/fineline

## Surface Preparation

### Surface preparation

On suitable Hesse PU coloured lacquers and primers. Prior to application, the surface must be sanded, clean and free of grease.

## Application

Application		Spray nozzle size	Spray pressure	Atomizing pressure
<b>2C line</b>				
Airless		0,23 - 0,28 mm	100 - 150 bar	
<b>Airless low pressure</b>				
Airmix		0,23 - 0,28 mm	60 - 100 bar	2 - 2,5 bar
Compressed air spraying		1,8 - 2 mm	1,8 - 2 bar	

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## Times

Pot life		4 h / 20 °C
Drying		16 h / 20 °C
Complete drying		7 d / 20 °C

## Finishing

**Finishing** After sufficient drying time and intermediate sanding, another coat of the same.

## Processing instructions

FANTASTIC-BRILLANT DU 48799 when hardened 4 : 1 in a mixing ratio (by volume) with PU Hardener DR 4071 can be polished and buffed after 48 h / 20 °C.

The maximum wet application amount when used as a low-flammable coating for seagoing vessels is 300 g/m<sup>2</sup> related exclusively to hardening in the mixing ratio (by volume) 4 : 1 with DR 4071. When used as a flame-retardant coating for seagoing vessels, this product must only be combined with other approved and technically matching products. Pre-priming is possible depending on surface requirements and substrate, including with the basecoats MEGA-PUR Basecoat DG 417, DG 4717-0005, PU Basecoat DG 468-3, DG 4760 or the colour lacquer ranges FANTASTIC-COLOR DB 4888x(gloss level)-(colour tone), UNA-COLOR DB 4524x(gloss level)-(colour tone), UNA-THIX-COLOR DB 4520x(gloss level)-(colour tone). "A risk assessment has been conducted according to 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."

## Particular instructions

The data given in this technical information on FANTASTIC-BRILLANT DU 48799 refer to the curing in mixing ratio (by volume) 4 : 1 with PU hardener DR 4071.

Optional curing of FANTASTIC-BRILLANT is possible with the PU hardeners:

- + DR 4071 in mixing ratio (volumetric) **4 : 1**, (gravimetric) **100 : 25**
- + DR 4070 in mixing ratio (volumetric) **2 : 1**, (gravimetric) **100 : 49**
- + DR 4078 in mixing ratio (volumetric) **5 : 2**, (gravimetric) **100 : 40**
- + DR 4076-0001 in mixing ratio (volumetric) **10 : 3**, (gravimetric) **100 : 31**
- + DR 4085 in mixing ratio (volumetric) **3 : 1**, (gravimetric) **100 : 35** DR 4096-0002 in mixing ratio (volumetric) 2 : 1, (gravimetric) **100 : 50**

For detailed information on the curing options of FANTASTIC-BRILLANT, please refer to the general technical information "Curing options FANTASTIC-BRILLANT": [https://www.hesse-lignal.com/en\\_GB/service/general-technical-descriptions/](https://www.hesse-lignal.com/en_GB/service/general-technical-descriptions/)

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 160 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 (+/- 15%)		85 s / DIN4
Yield per coat		7 - 10 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 %
Non-volatile proportion		48.1 %
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)		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)		4 : 1 PU Hardener DR 4071
Mixing information (gravimetric)		100 : 26 PU Hardener DR 4071

### Particular properties / testing standards

Sign	Product standard / basis
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)

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## Sample process

### High gloss cabinet fronts made of MDF foiled with ABS edges, in RAL 9016

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, addition of 15 % Thinner DV 4900 / DV 490 in relation 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> FANTASTIC-FILL DP 4755-9343, mixing ratio (by volume) 10 : 1 with PU hardener DR 4071, addition of 15 % Thinner DV 4900 / DV 490 in relation to the lacquer/hardener mixture

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

Filler sanding: 320 - 400 grit (dust removal)

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

Drying: 16 h / 20 °C

Smoothing: 600 - 800 grit

High gloss coating: 1x 90 - 100 g/m<sup>2</sup> FANTASTIC-BRILLANT DU 48799, mixing ratio (by volume) 4 : 1 with PU hardener DR 4071, addition of 20 - 30 % Thinner DV 4935 in relation to the lacquer/hardener mixture

Intermediate drying: 20 - 40 min / 20 °C

High gloss coating: 1x 100 - 120 g/m<sup>2</sup> FANTASTIC-BRILLANT DU 48799, mixing ratio (by volume) 4 : 1 with PU hardener DR 4071, addition of 20 - 30 % Thinner DV 4935 in relation to the lacquer/hardener mixture

Drying: > 48 h / 20 °C

FANTASTIC-BRILLANT DU 48799 can now be polished and buffed if required

## Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DU 48799			high gloss

## Accessories

	Order number	Product description
<b>hardeners</b>	DR 4071	PU Hardener
<b>Thinners</b>	DV 4935	PU Special thinner
<b>Retarder</b>	DV 4981	PU Thinner
<b>Equipment cleaner</b>	RV 1	Cleaning thinner
<b>Additives and care products</b>	ZD 5200	Care product for high gloss surfaces
<b>Additives and care products</b>	ZD 9501	SUN-EX

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### 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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