

Technical information

Hesse PU Acryl-brillant lacquer DU 45229

Mixing ratio (by volume): 2 : 1 PU Hardener DR 4005



Product description

DU 45229 is ideally suited for clear and high gloss finishing of colour lacquer surfaces. This high gloss lacquer is 100 % light fast and can be quickly polished or buffed using customary machines. It can also be used on natural and bleached woods with peroxide-resistant PU base coats.

Areas of application

DU 45229 can be used for shopfitting and on all interior fixtures and fittings, including in kitchens and bathrooms as well as for coatings in ship interiors.

Area of application

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

Substrate material

- bleached
- suitably pre-primed

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.

Substrate sanding grits



400 - 800

Application

Application		Spray nozzle size	Spray pressure	Atomizing pressure
2C line				
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 spray- ing unit				
Automatic spray gun				
Spraying robot				

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Times

Pot life	 4 h / 20 °C
Drying	 21 h / 20 °C
Stackable after	 2 d / 20 °C
Complete drying	 7 d / 20 °C

Finishing

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

Processing instructions

When being used as a flame-retardant coating agent for seagoing vessels, the maximum total application amount is 120 g/m². Hesse PU Acrylate brilliant lacquer DU 45229 can be polished to a high gloss after 48 h / 20 °C, or after 16 h / 30 - 35 °C. Should a high gloss surface with particular scratch resistance be required, we recommend the use of our transparent high gloss ADAMANT DU 48999 lacquer. Please note the separate technical information on this product.

Particular instructions

When used as coating material with low flame-spread characteristics complying with 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, this product is only compatible with other technically suitable and approved products. Pre-priming is possible, depending on the surface requirements and the substrate, using the likes of basecoats DG 417, 4717-0005 and UNA-COLOR DB 4524x(gloss level)-(colour tone). Combination with PU Basecoats DG 417 and DG 4717-0005 is recommended on bleached surfaces.

"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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Flow time (+/- 15%)	 30 s / ISO4
Yield per coat	 7 - 12 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.
Proportion of renewable raw materi-	 0 %
Non-volatile proportion	 38.7 %
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)	 3
Amount per layer (minimum)	 80 g/m ²
Amount per layer (max)	 150 g/m ²
Total application volume	 MAX 300 g/m ²
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Mixing information (gravimetric)	 100 : 50 PU Hardener DR 4005







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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)
	PVC-resistant
	Flame retardant to B1 according to DIN 4102; on suitable substrates.
	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.
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)
	Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)

Sample process

Sideboard in high gloss stone grey, unpolished

Substrate material: thermo-foiled MDF

Foil sanding: 320 - 400 grit

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

Basecoat: 1 x 150 - 200 g/m² PU Isolating filler DP 491-9343, mixing ratio (by volume) 4 : 1 with PU Hardener DR 405 and the addition of 10 - 15 % Thinner DV 4935 in relation to the lacquer/hardener mixture

Drying: at least 5 h / 20 °C, preferably 16 h / 20 °C

Filler sanding: 320 - 400 grit (dust removal)

Basecoat: 1 x 150 - 200 g/m² PU Isolating filler DP 491-9343, mixing ratio (by volume) 4 : 1 with PU Hardener DR 405 and the addition of 10 - 15 % Thinner DV 4935 in relation to the lacquer/hardener mixture

Drying: at least 5 h / 20 °C, preferably 16 h / 20 °C

Filler sanding: 320 - 400 grit (dust removal)

Colour coating: 1 x 120 - 150 g/m² UNA-COLOR DB 45245-7030, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070 and the addition of 10 - 20 % Thinner DV 490 in relation to the lacquer/hardener mixture

Drying: at least 5 h / 20 °C, preferably 16 h / 20 °C

Colour lacquer sanding: smoothing using 400 / 600 grit is required after an intermediate drying time of > 5 h / 20 °C!

High gloss coating: 2 x 90 - 120 g/m² PU Acrylic Brilliant lacquer DU 45229 with intermediate drying of 30 - 60 min / 20 °C, mixing ratio (by volume) 2 : 1 with PU Hardener DR 4005 and the addition of 20 - 40 % Thinner DV 4935 in relation to the lacquer/hardener mixture

Drying: > 48 h / 20 °C

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Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DU 45229			high gloss

Accessories

	Order number	Product description
hardeners	DR 4005	PU Hardener
Thinners	DV 4935	PU Special thinner
Retarder	DV 4981	PU Thinner
Equipment cleaner	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 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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