

Technical information

Hesse NOVA-PUR Basecoat DG 4734

Mixing ratio (by volume): 5 : 1 PU Hardener DR 4070

Product description

DG 4734 is a light fast, fast drying base coat for open- to closed-pore surface processes. Very elegant surfaces are quickly and assuredly achieved in combination with appropriate intermediate and finishing lacquers in gloss levels dull matt to glossy. This product can be sanded superbly with machines and by hand. It can also be used on bleached wood.

Areas of application

DG 4734 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

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- Exotic / tropical wood
- light deciduous woods with fine pores
- light deciduous woods with coarse pores
- Engineered veneer/fineline
- Conifers

Surface Preparation

Surface preparation

Clean dry wood, according to the wood type, application process and desired effect.

Substrate sanding grits



150 - 180

Lacquer sanding grit



320 - 400

Comments on sanding



Sanding with 400 - 600 grit is recommended before applying a final coat of high gloss finish.








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Application

Application		Spray nozzle size	Spray pressure	Atomizing pressure
2C line				
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		8 h / 20 °C
Drying		4 h / 20 °C
Stackable after		16 h / 20 °C
Complete drying		7 d / 20 °C

Finishing

Finishing After sufficient drying, can be re-coated using suitable light-fast Hesse polyurethane multi-coat, top coat and brilliant lacquers.

Processing instructions

Forced drying is possible at up to 50 °C.

Particular instructions

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/m².

"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%)	 40 s / DIN4
Yield per coat	 8 - 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.
Proportion of renewable raw material	 0 %
Non-volatile proportion	 31.1 %
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 ²
Amount per layer (max)	 120 g/m ²
Total application volume	 MAX 300 g/m ²
Mixing ratio (by volume)	 5 : 1 PU Hardener DR 4070
Mixing information (gravimetric)	 100 : 20 PU Hardener DR 4070

Particular properties / testing standards

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

Sample process

The coating process and the precise treatment parameters are adapted in each case to the respective application and drying conditions and can be found in the customer-specific process descriptions (surface techniques).

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Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DG 4734			

Accessories

	Order number	Product description
hardeners	DR 4070	PU Hardener
Thinners	DV 4900	PU Thinner
	DV 4994	PU Thinner
Retarder	DV 4909	PU Retarder
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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