

Technical information

Hesse PU Basecoat DG 4717-0005

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

Product description

DG 4717-0005 is ideally suited as a basecoat for closed-pore and light fast coatings even on critical wood species together with matching Hesse multicoat and finishing lacquers in gloss levels dull matt to high gloss. This product has good body and dries to be very transparent. It can also be used without problems on bleached woods and as a sealant for MDF edges in damp environments.

Areas of application

DG 4717-0005 can also be used for shopfitting and all interior fixtures and fittings, including in kitchens and bathrooms as well as the fitting out of 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
- bleached
- light deciduous woods with fine pores
- light deciduous woods with coarse pores
- Engineered veneer/fineline
- Conifers
- MDF



Surface Preparation

Surface preparation Clean, dry wood, dependent upon wood type and method of application.

Substrate sanding grits  150 - 180

Lacquer sanding grit  320 - 400

Application

Application	Spray nozzle size	Spray pressure	Atomizing pressure
2C line			
Airless	 0,23 - 0,28 mm	100 - 150 bar	
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			





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Times

Pot life		3 h / 20 °C
Drying		6 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

When being used as a flame-retardant coating agent for seagoing vessels, the maximum total application amount is 120 g/m².

Particular instructions

When used as a 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. For use as MDF edge-insulation under colour lacquer systems, treat the lacquer / hardener mixture with 20 - 30 % Thinner (DV 4900 or DV 4994). When used on bleached woods and artificial veneers, the first basecoat application requires the addition of 50 % (DV 4994 or DV 4955) in relation to the lacquer/hardener mixture. Always apply another coat on the same day after prior sanding at 320 grit.

"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%)		33 s / DIN4
Yield per coat		6 - 10 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		38 %
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)		4
Amount per layer (minimum)		100 g/m ²
Amount per layer (max)		150 g/m ²
Total application volume		600 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

Natural maple sideboard, satin gloss

Basecoat: 2 - 3 x 100 - 150 g/m² Hesse PU Basecoat DG 4717-0005, mixing ratio (by volume) 5 : 1 with PU Hardener DR 4070, addition of 10 - 20 % DV 4900 to the base lacquer

Intermediate drying: in each case at least 6 h / 20 °C, preferably overnight

Lacquer sanding: in each case 320 - 400 grit (dust removal)

Top coat: 1 x 100 - 150 g/m² Hesse PU Multicoat lacquer DE 45037, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070

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Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DG 4717-0005			

Accessories

	Order number	Product description
hardeners	DR 4070	PU Hardener
Thinners	DV 4900	PU Thinner
	DV 4994	PU Thinner
	DV 4955	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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