

Technical information

Hesse PU Basecoat DG 4760

Mixing ratio (by volume): 1 : 3 PU Hardener DR 4038



Product description

Hesse PU Basecoat DG 4760 is an especially transparent two component PU polyester resin basecoat. The lacquer sands well, is extremely elastic and has good body. This product is particularly suitable for building up a closed-pore finish and provides superb hold beneath high gloss. It also fulfills the requirements of the IMO EC Type Examination test certificate (flame retardant coating agent for seagoing vessels).

Areas of application

Hesse PU Basecoat DG 4760 is particularly suitable for achieving closed-pore lacquer structures beneath Hesse PU high gloss lacquers. This basecoat has great filling power and is used primarily in the high quality fit-out of ships, the interior design sector and shopfitting.

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.

For more information on Order information, please visit our website, contact our account managers and field service representatives, or contact your specialist dealers.

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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		1,5 h / 20 °C
Drying		6 h / 20 °C
Stackable after		16 h / 20 °C
Complete drying		7 d / 20 °C

Finishing

Finishing	After adequate drying and careful sanding, coat with Hesse high gloss lacquers DU 44099.
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Processing instructions

At high temperatures we recommend adjustment of the application viscosity using DV 4981 thinner! Due to the maximum pot life of at most 60 min at 20 °C we recommend application by means of a 2C sprayer.

Particular instructions

To improve the resistance and adhesion properties on critical woods, such as tropical woods and cherry, we recommend pre-priming with Hesse polyurethane insulating primer DG 4720-0001. This product is not suitable for use on bleached surfaces! 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 140 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%)	 44 s / ISO4
Yield per coat	 5 - 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 materi-	 0.64 %
NfA	 38.9 %
VOC EU	 59.58 %
VOC FR	 A+
conditions of transport	 frost-free - up to max. 30 °C
Shelf life in weeks	 52
Storage temperature	 16 - 40 °C
Number of coats (max)	 12
Amount per layer (minimum)	 100 g/m ²
Amount per layer (max)	 200 g/m ²
Total application volume	 2400 g/m ²
Mixing ratio (by volume)	 1 : 3 PU Hardener DR 4038
Mixing information (gravimetric)	 100 : 305 PU Hardener DR 4038

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

Contract installation in natural walnut, high gloss

Isolation: 2 x Hesse PU Isolating primer DG 4720-0001 with intermediate drying (20 - 30 min / 20 °C room temperature), mixing ratio (by volume) 2 : 1 with PU Hardener DR 4040 and the addition of 5 - 10 % Thinner DV 4994 in relation to the lacquer/hardener mixture

Drying: 2 h / 20 °C

Lacquer sanding: 320 - 400 grit (dust removal)

Basecoat: as necessary 2 - 3 x 100 - 250 g/m² Hesse PU Basecoat DG 4760 with intermediate drying (10 - 30 min / 20 °C room temperature), mixing ratio (by volume) 1 : 3 with PU Hardener DR 4038 and the addition of 20 - 30 % Thinner DV 4935 or DV 4981 (at high temperatures and on large surfaces) in relation to the lacquer/hardener mixture

Drying: at least 16 h / 20 °C

Lacquer sanding: 320 - 400 grit (dust removal)

Basecoat: as necessary 2 - 3 x 100 - 250 g/m² Hesse PU Basecoat DG 4760 with brief intermediate drying (10 - 30 min / 20 °C room temperature), mixing ratio (by volume) 1 : 3 with PU Hardener DR 4038 and the addition of 20 - 30 % Thinner DV 4935 or DV 4981 (at high temperatures and on large surfaces) in relation to the lacquer/hardener mixture

Drying: at least 16 h / 20 °C

Another basecoat can be applied if necessary. After adequate drying, sand the last basecoat layer using 400 - 800 grit depending on the type of wood and colour tone (dust removal).

Top coat: 2 x Hesse PU Brilliant lacquer DU 44099 with intermediate drying (20 - 30 min / 20 °C room temperature), mixing ratio (by volume) 2 : 1 with PU Hardener DR 4080 and the addition of 20 - 30 % Thinner DV 4935 in relation to the lacquer/hardener mixture

Dust dry: after 10 - 20 min / 20 °C

Ready for packaging/polishing: after at least 3 d / 20 °C

Ordering information

Order number	Gloss level 60° (Gloss +/-5)	Gloss level
DG 4760		

Accessories

	Order number	Product description
hardeners	DR 4038	PU Hardener
Thinners	DV 4900	PU Thinner
	DV 4994	PU Thinner
	DV 4935	PU Special thinner
Retarder	DV 4981	PU Thinner
Equipment cleaner	RV 1	Cleaning thinner

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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