

>Product description

FANTASTIC-CLEAR ULTRAMATT is a light fast, transparent and extremely matt acrylate-based multicoat lacquer. Its versatile application options **on all common woods** and its ease of use mean that **FANTASTIC-CLEAR ULTRAMATT** is outstanding as a **multicoat** or **finishing lacquer** on top of Hesse polyurethane basecoats. It is an ideally matched combination product **as an ultra-matt finishing lacquer on FANTASTIC-COLOR** and gives a remarkable **velvety feel to the surface**. Application of **FANTASTIC-CLEAR ULTRAMATT** even **on bleached woods** is also possible.

>Areas of application

FANTASTIC-CLEAR ULTRAMATT is a **high quality PU lacquer** for **all interior and shop fittings**; it can also be used for coatings in **kitchens and bathrooms**.

>Surface Preparation

Surface preparation	Clean, dry wood, dependent upon wood type and method of application.
Substrate sanding grits from-to	150 - 400
Lacquer sanding (grit) from - to	280 - 400

>Finishing

Finishing	After sufficient drying and immediately after interim sanding with lacquer from the same product range.
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>Times

Usage time	8 h / 20 °C
Pot life	1 d / 20 °C
Drying	2 h / 20 °C
Stackable after	> 16 h / 20 °C
Complete drying	7 d / 20 °C

>Application

Application	Nozzle size in mm	Spray pressure in bar	Atomising pressure in bar
Spraying			
2C line			
Airless	0,23 - 0,28	100 -150	
Airless low pressure			
Air mix	0,23 - 0,28	60 - 100	2,0 - 2,5
Compressed air spraying	1,8 - 2,0	1,8 - 2,0	
High-performance automatic spraying unit			
Automatic spray gun			

>Processing instructions

Finishers wanting to work exclusively with Hardener DR 4070 have the option of mixing FANTASTIC-CLEAR ULTRAMATT in a mixing ratio (by volume) of 5 : 1 with PU Hardener DR 4070. This mixing ratio may slightly extend the drying time. Conduct a trial coating under practical conditions as necessary.

This product is only suitable as a flame retardant coating for seagoing vessels when the default hardening is used, not the optional hardenings!

Technical information

Hesse FANTASTIC-CLEAR ULTRAMATT DE 48770-0

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071

>Technical data

Flow time (+/- 15 %)	30 s / DIN 53211 - 4 mm
Appearance	colourless
Density series kg/l	0.937
Yield per coat	5 - 8 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.
Form of delivery	fluid
Non-volatile content series %	27
VOC EU %	73 %
VOC FR	C
Shelf life in weeks	52
Number of coats (max)	3
Amount per layer (minimum)	120 g/m ²
Amount per layer (max)	200 g/m ²
Total application volume	400 g/m ²
Mixing ratio (by volume)	10 : 1 PU Hardener DR 4071
Mixing ratio (gravimetric)	100 : 10 PU Hardener DR 4071

>Ordering information

Order number	Gloss level 60° (Gloss)	Gloss level	Container Size
DE 48770-0	0 - 3	dull matt	1 l, 5 l, 25 l

>Hardeners

Order number	Product description	Container Size
DR 4071	PU Hardener	0.1 l, 0.5 l, 1 l, 2.5 l, 5 l, 15 l

>Thinners

Order number	Product description	Container Size
DV 490	PU Thinner	1 l, 5 l, 15 l, 25 l
DV 4900	PU Thinner	1 l, 5 l, 15 l, 25 l
DV 4935	PU Thinner	5 l, 15 l, 25 l

>Retarder

Order number	Product description	Container Size
DV 499	Universal retarder	1 l, 5 l, 10 l, 15 l, 25 l
DV 4909	PU Retarder	1 l, 5 l, 25 l

>Equipment cleaner

Order number	Product description	Container Size
RV 1	Cleaning thinner	5 l, 15 l, 25 l

>Cleaning agent and care product

Order number	Product description	Container Size
GR 1900	Cleaning agent	1 l, 2.5 l, 3 l, 25 l

>Particular instructions

FANTASTIC-CLEAR ULTRAMATT DE 48770-0 may not be mixed with the FANTASTIC-CLEAR DE 4877x(gloss level) range! Mixing these two lacquer systems could result in incompatibility reactions or alterations in the respective product properties.

Colour lacquers UNA-COLOR DB 4524x(gloss level)-(colour tone) and FANTASTIC-COLOR DB 4888x(gloss level)-(colour tone) can be tinted using FANTASTIC-CLEAR ULTRAMATT as a glazing lacquer (**maximum addition 1.5 %**). The following Hesse basecoats can be combined with FANTASTIC-CLEAR ULTRAMATT depending on surface requirements and substrate material: DG 434 / DG 4734, DG 417 / DG 4717-0005, DG 468-1 / DG 4768-0011 and DG 4750.

"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."

>Sample process

Conference room cabinet front in natural walnut, ultra-matt

Wood sanding: 150 - 180 grit (dust removal)

Basecoat: 1 x 100 - 150 g/m² Hesse FANTASTIC-CLEAR ULTRAMATT DE 48770-0, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 20 - 25 % Thinner DV 4900 to the lacquer/hardener mixture

Intermediate drying: 2 - 3 h / 20 °C

Lacquer sanding: 280 - 320 grit (dust removal)

Top coat: 1 x 100 - 150 g/m² Hesse FANTASTIC-CLEAR ULTRAMATT DE 48770-0, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 20 - 25 % Thinner DV 4900 to the lacquer/hardener mixture

Packable: after at least 16 h / 20 °C

Laminated MDF sideboard in a blueberry colour tone, ultra-matt

Laminate sanding: 320 - 400 grit (dust removal)

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

Basecoat: 1 x 150 - 200 g/m² Hesse FANTASTIC-FILL DP 4755-9343, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 15 % Thinner DV 4900 / DV 490 to the lacquer/hardener mixture;

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

Filler sanding: 320 - 400 grit (dust removal)

Colour and top coat: 1 x 120 - 180 g/m² Hesse FANTASTIC-COLOR DB 48882-42798, mixing ratio (by volume) 10 : 1 with Hesse PU Hardener DR 4071 and the addition of 10 - 30 % Thinner DV 4900 / DV 490 to the lacquer/hardener mixture

Drying: > 2 h / 20 °C

Lacquer sanding: 320 - 400 grit (dust removal)

Top coat: 1 x 100 - 150 g/m² Hesse FANTASTIC-CLEAR ULTRAMATT DE 48770-0, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4071 and the addition of 20 - 25 % Thinner DV 4900 to the lacquer/hardener mixture

Packable: after at least 16 h / 20 °C

>General information

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.





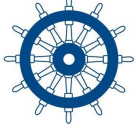


Please apply a test coat under real conditions!

Technical information

Hesse FANTASTIC-CLEAR ULTRAMATT DE 48770-0

Mixing ratio (by volume): 10 : 1 PU Hardener DR 4071

>Particular properties and/or testing standards

Test standard / basis	Testing laboratory	Mark	Report	No.
Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)	HESSE			
DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)	HESSE			
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.	HESSE			
Toy safety DIN EN 71-3 (2014-12)	LGA		Test report	0003294037/60 AZ 344165
EC type examination certificate (module B); coating agent for seagoing vessels according to IMO Resolution MSC.307(88)-(FTP-Code 2010).	Trade association transport and traffic; Ship Safety Division, Hamburg		Approval No. U.S. Coast Guard Approval No.	116545-00 164.112/ EC0736/116545-00
Flame retardant to B1 according to DIN 4102; on suitable substrates.	MPA-Stuttgart		Test certificate no. certificate of compliance	P-BWU03-I-16.5.440 ÜZ-BWU03-I 16.2.894
Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials	MPA Stuttgart		Classification:	B-s1, d0 (veneer chip-board)

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. Safety data sheet is provided in accordance with EC regulation no. 1907/2006.