

Hesse PU Multicoat Lacquer DE 4259x(gloss level)

Mixing ratio (by volume): 10 : 1 PUR Hardener DR 4070

>Product description

Hesse PU Multicoat lacquer range DE 4259x(gloss level) is a two-component PU lacquer with an acrylic resin base. It is resilient, light fast and formulated with additional light protection. It is a coating lacquer for priming and top coating that achieves outstanding results and is universally applicable, The product can be used on bleached wood. This multicoat lacquer meets the EC-type examination certificate (IMO-certification, flame-retardant coating agent for seagoing vessels). In addition, the series DE 4259x(gloss level) was tested for flame retardancy by the CSTB testing institute and meets the French M1 classification as well as the test certificate for flame retardance according to DIN 4102 B1.

>Areas of application

This product can be used in restaurants, kitchens and bathrooms or for tables. It is suitable for surfaces needing high resistance to chemical and mechanical stresses and is therefore ideal for heavily used surfaces. It can also be used on wenge, even if the bare wood is to be bleached and stained.

>Surface Preparation

Surface preparation	Clean, dry wood, dependent upon wood type and method of application
Substrate sanding grits from-to	150 - 180
Intermediate lacquer sanding (grits) from-to	280 - 320
Finishing	Coat with products from the same series after drying and lacquer sanding.

>Times

Usage time	8 h / 20 °C
Shelf life	3 d / 20 °C
Drying	2 h / 20 °C
Stackable after	at least 16 h / 20 °C
Complete drying	7 d / 20 °C

>Application

Application	Nozzle size in mm	Spray pressure in bar	Atomising pressure in bar
<i>Spraying</i>			
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	2,5 - 3,5	
High-performance automatic spraying unit			
Automatic spray gun			
Spraying robot			

>Processing instructions

One to three coats at 100 - 150 g/m² on suitable substrates. The maximum application amount in wet film totals 350 g/m². The maximum total application amount when used as a flame-retardant coating material for seagoing vessels is 150 g/m². For the lacquering of critical substrates, a curing of the lacquer/hardener mixture of 5 : 1 with PU hardener DR 4070 is recommended. The curing 5 : 1 with the PU hardener DR 4076-0001, also enables direct lacquering on glass, after a prior mixing of 5 % glass lacquer additive EL 460-0025 to the lacquer components. It is necessary to clean the glass surface to be lacquered beforehand properly with Hesse glass cleaner ZD 101.

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>Technical data

Flow time	30 s / DIN 53211 4 mm
Appearance	colourless
Density series kg/l	0.92 - 0.935
Form of delivery	fluid
Non-volatile content series %	22.9 - 25.1
VOC EU %	75 %
VOC FR	A+
Storage temperature	16 - 25 °C
Shelf life in weeks	52
Working temperature	20 °C
Number of coats (max)	3
Amount per layer (minimum)	100 g/m ²
Amount per layer (most)	150 g/m ²
Total application volume	450 g/m ²
Mixing ratio (by volume)	10 : 1 PUR Hardener DR 4070
Mixing ratio (gravimetric)	100 : 10 PUR Hardener DR 4070

>Ordering information

Order number	Gloss level 60° (Gloss +/-5)	Gloss level	Container Size
DE 42590	2	dull matt	1 LTR, 5 LTR, 25 LTR
DE 42592	10	matt	1 LTR, 5 LTR, 25 LTR
DE 42594	20	silk matt	1 LTR, 5 LTR, 25 LTR
DE 42597	40	satin gloss	1 LTR, 5 LTR, 25 LTR
DE 42599	85	high gloss	5 LTR, 25 LTR

>Hardeners

Order number	Container Size	Product description
DR 4070	0.1 LTR, 0.5 LTR, 1 LTR, 2.5 LTR, 5 LTR, 10 LTR	PUR Hardener

>Thinners

Order number	Container Size	Product description
DV 4900	0.5 LTR, 1 LTR, 5 LTR, 10 LTR, 25 LTR	PU Thinner
DV 4994	1 LTR, 5 LTR, 10 LTR, 25 LTR	PU Thinner

>Retarder

Order number	Container Size	Product description
DV 4909	1 LTR, 5 LTR, 10 LTR, 25 LTR	PUR Retarder

>Equipment cleaner

Order number	Container Size	Product description
RV 1	5 LTR, 10 LTR, 25 LTR	Cleaning thinner
DV 4916	1 LTR, 5 LTR, 10 LTR, 25 LTR	PUR THINNER

>Cleaning agent and care product

Order number	Product description	Container Size
GR 1900	Cleaning agent	1 LTR, 25 LTR

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>Particular instructions

When being used as a flame-retardant coating material for seagoing vessels in accordance with SOLAS 74/88 Regulations II-2/3, II-2/5 and II-2/6, in the latest version, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7 and IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, this product may only be combined with other approved and technically suitable products. **The dull matt finish of DE 42590 and the extra matt formulation of DE 42590-0007 (please observe the separate Technical Information) is not to be used as a multicoat lacquer but only as a single coat lacquer!** Hesse PU Multicoat lacquer DE 4259x(gloss level) is perfect as a finishing coat on top of Hesse PU Colour lacquer DB 4524x-(gloss level)-(colour tone) and provides outstanding metal-marking resistance. Hesse PU Colour lacquer DB 4524(gloss level)-(colour tone) can be used to tint Hesse PU Multicoat lacquer DE 4259x(gloss level). Pre-priming is possible depending on the surface-finish requirements and substrate, for example with Hesse Primers DG 4741, DG 4734, DG 4717-0004, DG 4768-0004 and DG 4763.

>Sample process

Pharmacy fit-out in natural rosewood / silky gloss / with open pores

Wood sanding: 150 - 180 grit (dust removal)

Primer: 1 x 100 - 150 g/m² / 20 °C Hesse PU multicoat lacquer DE 42597, mix ratio (by volume) 10 : 1 with PU hardener DR 4070

Intermediate drying: 2 h / 20 °C. Intermediate sanding: 280 - 320 grit (dust removal)

Finishing coat: 1 x 100 - 150 g/m² / 20 °C Hesse PU multicoat lacquer DE 42597, mix ratio (by volume) 10 : 1 with PU hardener DR 4070. Packable: after at least 16 h / 20 °C.


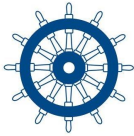






>General information

PU lacquers should not be used and dried at product and room temperatures below 18 °C and below 40 % RH, ideal values: 20 -25 °C, 50 - 65 % RH. Deviations lead to problems with drying or, as may apply, hardening. 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. Mixed residues from the previous day must only be used as a 10 - 20 % aggregate in a fresh lacquer/hardener mixture. Old lacquer/hardener mixtures impair the surface quality (adhesion/stability). Freshly bleached woods must be dried for at least 48 h / 20 °C before being coated with PU lacquers. If stored correctly (at least 20 °C room temperature), complete hardening of the coating is achieved after a week. Please apply a test coat under real conditions!

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>Particular properties and/or testing standards

Standard / basis	Testing laboratory	Mark	Report	No.
flame-retardant according to French standard; M1	CSTB		Test no.	RA15-0319
EC-Type Examination (Module B) Certificate; coating for sea going vessels complying with IMO Resolution MSC.61(67)-(FTP-Code).	Trade association transport and traffic; Ship Safety Division, Hamburg		Approval no. US Coast Guard approval no.	116.324 116.112/ EC0736/ 116.324
Suitable for the manufacture of low-emissions surfaces with appropriate treatment.	HESSE			
Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)	HESSE			
Toy Safety DIN EN 71-3 (2002-11)	HESSE			
Formulation is free of: Wood preservatives, toxic heavy metals, phthalate plasticisers, formaldehyde, CMRs category 1A + 1B and volatile aromatic and halogenated organic compounds.	HESSE			
DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)	HESSE			
Flame retardant to B1 according to DIN 4102; on suitable substrates.	MPA-Stuttgart		Test certificate no. certificate of compliance	P-BWU03-I-16.5.75 ÜZ-BWU03-I 16.2.828

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.