

## Hesse Pur-Multicoat Lacquer DE 4259x(gloss level)

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

### >Product description

Hesse PU multi-coat lacquer range DE 4259x(gloss level) is a two-component PU lacquer on an acrylic resin base. It is resilient, light fast and formulated with additional light protection. A coating lacquer for priming and final lacquering with outstanding results and universally applicable, the product can be used on bleached wood. This multi-coat lacquer meets the EC type-examination certificate (IMO-certification, flame-retardant coating agent for seagoing vessels).

### >Areas of application

Can be used in restaurants, kitchens and bathroom areas or for tables. The product is suitable for surfaces needing high resistance to chemical and mechanical stresses and is therefore ideal for heavily used surfaces. In addition, it can also be used on wenge, even if this type of wood is to be bleached and stained.

Not suitable for applications within the scope of the ChemVOCFarbV (German ordinance on solvent-based paints and varnishes) or the EU Directive 2004/42/EC (Decopaint).

### >Surface Preparation

Surface preparation	Clean, well seasoned wood, depending on species and application method.
Substrate sanding grits from-to	150 - 180
Intermediate lacquer sanding (grits) from-to	280 - 320
Finishing	After drying and sanding only with varnish material of the same range.

### >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
<b>Spraying</b>			
2C system			
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/m<sup>2</sup> on suitable substrates. The maximum application amount in wet film totals 350 g/m<sup>2</sup>. The maximum total application amount when used as a flame-retardant coating agent for seagoing vessels is 150 g/m<sup>2</sup>. For the lacquering of critical substrates, a curing of the lacquer/hardener mixture of 5 : 1 with PUR hardener DR 4070 is recommended. The curing 5 : 1 with the PUR 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.

## Hesse Pur-Multicoat Lacquer DE 4259x(gloss level)

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

### >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 stability	16 - 25 °C
Shelf life in weeks	52
Working temperature	20 °C
Number of coats (max)	3
Amount per layer (minimum)	100 g/m <sup>2</sup>
Amount per layer (most)	150 g/m <sup>2</sup>
Total application volume	450 g/m <sup>2</sup>
Mixing ratio (vol)	Mixing ratio (by volume) 10 : 1 PUR Hardener DR 4070
Mix ratio (gravimetric)	100 : 10

### >Ordering information

Order number	Degree of gloss 60° (Gloss +/-5)	Gloss level	Container size
DE 42590	2	dull matt	1 l, 5 l, 25 l, 200 l, 400 l, 1000 l
DE 42592	10	matt	1 l, 5 l, 25 l, 200 l, 1000 l
DE 42594	20	silk matt	1 l, 5 l, 25 l, 200 l, 400 l, 1000 l
DE 42595	25	silk matt	5 l, 25 l, 200 l, 400 l, 1000 l
DE 42596	30	satın gloss	1 l, 5 l, 25 l, 200 l, 400 l, 1000 l
DE 42597	40	satın gloss	1 l, 5 l, 25 l, 200 l, 400 l
DE 42598	54	glossy	1 l, 5 l, 25 l
DE 42599	85	high gloss	5 l, 25 l, 200 l, 400 l, 1000 l

### >Hardeners

Order number	Product description	Container size
DR 4070	PUR Hardener	0,1 l, 0,5 l, 1 l, 2,5 l, 5 l, 10 l, 200 l, 1000 l

### >Thinners

Order number	Product description	Container size
DV 4900	PUR Thinner	0,5 l, 1 l, 5 l, 10 l, 25 l, 200 l, 400 l, 1000 l
DV 4994	PUR Thinner	1 l, 5 l, 10 l, 25 l, 200 l, 400 l

### >Retarder

Order number	Product description	Container size
DV 4909	PUR Retarder	1 l, 5 l, 10 l, 25 l, 200 l

### Hesse Pur-Multicoat Lacquer DE 4259x(gloss level)

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

#### >Equipment cleaner

Order number	Product description	Container size
RV 1	Cleaning thinner	5 l, 10 l, 25 l, 200 l, 400 l, 1000 l
DV 4916	PUR THINNER	1 l, 5 l, 10 l, 25 l, 200 l, 400 l, 1000 l

#### >Cleaning agent and care product

Order number	Product description
GR 1900	Cleaning agent

#### >Particular instructions

When being used as a flame-retardant coating agent 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 this product may only be combined with other approved and technically suitable products.

The dull matt finish of Hesse PUR DE 42590 is not to be used as a multi-coat lacquer rather only as a single coat lacquer!

Hesse PUR coating lacquer DE 4259x(gloss level) is perfect as a finishing coat on top of Hesse PUR coloured lacquer DB 4524x-(gloss level)-(colour) and provides outstanding metal-marking resistance.

Hesse PUR coloured lacquer DB 4524(gloss level)-(colour)T can be used to tone down Hesse PUR multi-coat 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/m<sup>2</sup> / 20 °C Hesse PUR multi-coat 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/m<sup>2</sup> / 20 °C Hesse PU multi-coat lacquer DE 42597, mix ratio (by volume) 10 : 1 with PU hardener DR 4070. Packable: after at least 16 h / 20 °C.

#### >General information


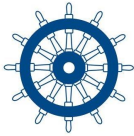





Polyurethane coatings should not be used or dried at material and room temperatures of less than 18 °C and 40 % RH, ideal values: 20 - 25 °C, 50 - 65 % RH. Deviations will result in drying or curing errors. Mixed residues from the previous day must only be used as a 10 - 20 % aggregate in a fresh lacquer/hardener mixture. Old lacquer/hardener mixtures impair the surface quality (adhesion/stability). Freshly bleached woods must undergo intermediate drying for at least 48 h at 20 °C before overpainting with polyurethane lacquers. If stored correctly (at least 20 °C / room temperature), complete hardening of the coating is achieved after a week.

Please test the lacquer under real conditions!

## Hesse Pur-Multicoat Lacquer DE 4259x(gloss level)

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

### >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			

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](http://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.