

Hesse PUR Brillant lacquer DB 44099 (colour)

Mixing ratio (by volume) 2 : 1 PUR Hardener DR 4080

>Product description

Dual-component polyurethane lacquer on a polyester resin basis, pigmented, dries to brilliant, can be polished or buffed for coloured and closed-pore build up of lacquer coats. Available in almost all colours. Additionally IMO certified (flame-retardant coating material for seagoing vessels). The product fulfils the requirements for Flame retardancy according to DIN 4102 B1 in combination with DP 4791-9343.

>Areas of application

For all interior designs, including high use areas, like kitchen and bathroom and as a piano coating on PUR-filler primers. Not suitable for use in applications covered by the ChemVOCFarbV (Decopaint-Directive) or EU Directive 2004/42/EG (Decopaint).

>Surface Preparation

Surface preparation	Clean with a sanding pass on film and melamine.
Substrate sanding grits from-to	Grit 320 -400 (ply, melamin, filler coated substrates)
Intermediate lacquer sanding (grits) from-to	400 - 800
Finishing	On your own, immediately after an intensive sanding.

>Times

Usage time	2 - 3 h / 20 °C
Shelf life	4 h / 20 °C
Drying	16 h / 20 °C
Stackable after	3 d / 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 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

1 to 4 coats at 70 - 130 g/m² on matching, hardened polyurethane primers after a previous fine sanding. The maximum overall applications amount to 350 g/m².

Hesse PUR Brillant lacquer DB 44099 (colour)

Mixing ratio (by volume) 2 : 1 PUR Hardener DR 4080

>Technical data

Flow time	18 s / * *
Appearance	Opaque
Density series kg/l	0.998 - 1.237
Form of delivery	fluid
Non-volatile content series %	44.3 - 61.4
VOC EU %	54 %
VOC FR	C
Storage stability	16 - 25 °C
Shelf life in weeks	26
Working temperature	20 °C
Working viscosity	16 s in 4mm
Number of coats (max)	4
Amount per layer (minimum)	70 g/m ²
Amount per layer (most)	130 g/m ²
Total application volume	350 g/m ²
Mixing ratio (vol)	Mixing ratio (by volume) 2 : 1 PUR Hardener DR 4080
Mix ratio (gravimetric)	100 : 53

>Ordering information

Order number	Colour tone	Gloss level	Container size
DB 44099-9005	9005	high gloss	1 l, 5 l, 10 l, 25 l
DB 44099-9010	9010	high gloss	1 l, 5 l, 10 l, 25 l

>Hardeners

Order number	Product description	Container size
DR 4080	PUR Hardener	0,5 l, 2,5 l, 5 l, 12,5 l

>Thinners

Order number	Product description	Container size
DV 4935	PUR Special thinner	5 l, 25 l, 200 l
DV 4994	PUR Thinner	1 l, 5 l, 10 l, 25 l, 200 l, 400 l
DV 4962	PUR Thinner	5 l, 25 l, 200 l, 1000 l

>Equipment cleaner

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

>Cleaning agent and care product

Order number	Product description	Container size
ZD 5200	FURNITURE POLISH	1 l, 5 l, 10 l

>Particular instructions

Please also observe the separate technical information on the subject "Polishing/Buffering".

Depending on the required surface finish and backing material, pre-priming is possible, for instance with Hesse PUR-sealing filler DP 4791-9343 or Hesse PUR-sealing filler DP 4791-9005. An intermediate coat of Hesse PUR-coloured lacquer DB 45245-FT applied in the same colour as the selected Hesse PUR brilliant lacquer DB 44099-FT, between filler and high gloss coating, greatly improves the outcome of the high-gloss structure!

Hesse PUR Brillant lacquer DB 44099 (colour)

Mixing ratio (by volume) 2 : 1 PUR Hardener DR 4080

>Sample process

Cabinet made of laminated MDF/ built up in high-gloss black

Laminate sanding: 320 grit (dust removal)

Base coat: 1 x 150 - 200 g/m² Hesse PU isolation filler DP 4791-9005, mix ratio (by volume) 4 : 1 with PU hardener DR 4058 and thinned with 5-10% DV 4900

Drying: at least 16 hours at 20°C

Lacquer-sanding: in stages through 320 - 600 grit (dust removal)

Finishing coat: 2 x with brief intermediate drying (20 - 30 minutes at room temperature 20°C) 80 - 120 g/m² Hesse PU brilliant-colour DB 44099-9005, mix ratio (by volume) 2 : 1 by volume with PU hardener DR 4080 thinned 30% with DV 4935


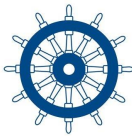





Ready for transport/polishing: after 3 days at 20°C

>General information

PUR paints should not be applied or dried at material and room temperatures of below 18 °C or relative humidity of below 40% ; ideal values: 20 - 25 °C, 50 - 65% relative humidity. Deviations from these guidelines may lead to problems with drying or hardening. Any mixed lacquer left over from the previous day should only be used as a 10 - 20% proportion added to a fresh mixture of lacquer and hardener . Old lacquer/hardener mixtures impair the surface quality (bonding/resilience). Freshly bleached woods must undergo intermediate drying for at least 48 h at 20 °C before overpainting with polyurethane lacquers. The final hardness of the coating is achieved after one week in correct storage conditions (at least 20 °C RT).

Please apply a test coat under real conditions !

>Particular properties and/or testing standards

Standard / basis	Testing laboratory	Mark	Report	No.
Standard building authority approval as a flame retardant building material on flame retardant chipboard, including veneered board (building material class DIN 4102-B1)	MPA-Erwitte		Test certificate no. certificate of compliance	P-MPA-E-13-525 230009161/2
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. US Coast Guard approval no.	116.446 164.112/ EC0736/116.446
Formulation is free of: Wood preservatives, toxic heavy metals, phthalate plasticisers, formaldehyde, CMRs category 1A + 1B and volatile aromatic and halogenated organic compounds.	HESSE			
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			
PVC-resistant	HESSE			
Flame retardant to B1 according to DIN 4102; on suitable substrates.	MPA-NRW		Test certificate no. certificate of compliance	P-MPA-E-15-525 230010255

Technical information



Hesse PUR Brillant lacquer DB 44099 (colour)

Mixing ratio (by volume) 2 : 1 PUR Hardener DR 4080

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.