

## Technical information

### Hesse PU Brillant-Colour DB 44099-(colour tone)

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

#### >Product description

DB 44099-(colour tone) is a coloured high gloss lacquer with **impressive lacquer distribution**. This **product has good body** and dries to be **very brilliant** and **high gloss**, combined with **optimal sanding and polishing properties**. Our coloured high gloss lacquer is available in virtually **all colour tones**.

#### >Areas of application

DB 44099-(colour tone) can be used for all interior fixtures and fittings, including in kitchens and bathrooms as well as for coatings in ship interiors.

#### >Surface Preparation

Surface preparation	Clean with a sanding pass on film and melamine.
Substrate sanding grits from-to	320 - 400
Lacquer sanding (grit) from - to	400 - 800

#### >Finishing

Finishing	With itself, immediately after an intensive sanding.
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#### >Times

Usage time	2 - 3 h / 20 °C
Pot life	4 h / 20 °C
Drying	16 h / 20 °C
Stackable after	> 72 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			
Spraying robot			

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#### >Technical data

Flow time (+/- 15 %)	45 s / DIN EN ISO 2431 - 4 mm
Appearance	opaque
Form of delivery	fluid
VOC EU %	54 %
VOC FR	C
Storage temperature	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 <sup>2</sup>
Amount per layer (max)	130 g/m <sup>2</sup>
Total application volume	350 g/m <sup>2</sup>
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Mixing ratio (gravimetric)	100 : 52 PUR Hardener DR 4080

#### >Ordering information

Order number	Colour tone	Gloss level 60° (Gloss)	Gloss level	Container Size
DB 44099-9005	9005	≥ 90	high gloss	5 l, 25 l
DB 44099-9010	9010	≥ 90	high gloss	5 l, 15 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	PU Thinner	5 l, 15 l, 25 l
DV 4994	PU Thinner	1 l, 5 l, 15 l, 25 l
DV 4962	PU Thinner	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
ZD 5200	Furniture polish	1 l, 5 l, 15 l

#### >Particular instructions

Please also note the separate technical information on "Polishing/Buffering". Pre-priming is possible depending on the substrate material and desired surface, for instance using Hesse PU Isolating filler DP 4791-9343, FANTASTIC-FILL DP 4755-9343 or FANTASTIC-FILL DP 4755-9005. An intermediate coat of Hesse UNA-COLOR DB 45245-(colour tone) applied between filler and high gloss in the same colour tone as the selected Hesse PU Brilliant lacquer DB 44099-(colour tone) greatly improves the outcome of the high gloss structure! **"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

MDF display case, laminated in white, high gloss

Laminate sanding: 320 grit (dust removal)

Basecoat: 1 x 150 - 200 g/m<sup>2</sup> Hesse PU Isolating filler DP 4791-9343, mixing ratio (by volume) 4 : 1 with PU Hardener DR 4058 and the addition of 10 – 15 % Thinner DV 4935 in relation to the lacquer/hardener mixture

Drying: at least 16 h / 20 °C

Lacquer sanding: graduated from 320 - 600 grit (dust removal)

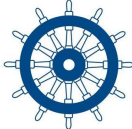





Top coat: 2 x 80 - 120 g/m<sup>2</sup> Hesse PU Brilliant lacquer DB 44099-9010 with brief intermediate drying (20 - 30 min / 20 °C room temperature), mixing ratio (by volume) 2 : 1 with PU Hardener DR 4080 and the addition of 30 % Thinner DV 4935 in relation to the lacquer/hardener mixture

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

#### >General information

PU 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 % RH. 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 / 20 °C before overpainting with PU lacquers. The final hardness of the coating is achieved after one week in correct storage conditions (at least 20 °C room temperature). Please apply a test coat under real conditions!

#### >Particular properties and/or testing standards


Test standard / basis	Testing laboratory	Mark	Report	No.
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.	116446-01 164.112/ EC0736/116446-01
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			
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-Stuttgart		Test certificate no. certificate of compliance	P-MPA-E-15-525

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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.