

## Technical information

# Hesse UNA-COLOR DB 4524x(gloss level)-(colour tone)

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

## Product description

DB 4524x(gloss level)-(colour tone) is an acrylate-based PU colour lacquer with extremely good levelling. Its excellent adhesion properties on almost all substrates, its uncomplicated application and a pot life of 3 days make this colour lacquer ideal for universal use. DB 4524(gloss level)-(colour tone) can also be coated over with all customary light fast finishing lacquers for optimal metal marking resistance.

## Areas of application

DB 4524x(gloss level)-(colour tone) can be used for shopfitting and all interior fixtures and fittings, including in kitchens and bathrooms as well as the fitting out of ship interiors. Aside from that, the product can be used with different types of hardeners and mixing ratios

## Area of application

- Internal fit-out
- Kitchen and bathroom
- Furniture
- The fitting out of ship interiors
- Doors

## Substrate material

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- Exotic / tropical wood
- bleached
- light deciduous woods with fine pores
- light deciduous woods with coarse pores
- Engineered veneer/fineline
- Conifers
- Teak
- Wenge
- Hardboard
- HDF
- MDF
- OSB
- Particle board
- ABS
- Priming foil
- Melamine foil
- Paper foil

## Surface Preparation

### Surface preparation

Perform cleaning by sanding on foil or melamine before coating.

### Substrate sanding grits



150 - 320

### Lacquer sanding grit



320 - 400

### Comments on sanding



When directly coating cleaned or sanded foils, please apply a test coat to check the bonding.



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## Application

Application		Spray nozzle size	Spray pressure	Atomizing pressure
2C line				
Airless		0,23 - 0,28 mm	100 - 150 bar	
Airless low pressure				
Airmix		0,23 - 0,28 mm	60 - 100 bar	2 - 2,5 bar
Compressed air spraying		1,8 - 2 mm	1,8 - 2 bar	
High-performance automatic spraying unit				
Gap coating				
Automatic spray gun				
Spraying robot				
Poured rolling				

## Times

Pot life		3 d / 20 °C
Usage time		8 h / 20 °C
Drying		3 h / 20 °C
Stackable after		16 h / 20 °C
Complete drying		7 d / 20 °C

## Finishing

Finishing	Good metal marking resistance is achieved with the DB 555-(colour tone) colour lacquer range. Please use a top coat like Hesse UNA-PUR DE 55x(gloss level) or Hesse MEGA-PUR DE 56x(gloss level) if absolute metal marking resistance, colour abrasion resistance or another gloss level is desired.
Overcoatable	Hesse FANTASTIC-CLEAR ULTRAMATT DE 48770-0

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## Processing instructions

The maximum total application amount in wet film when used as a flame-retardant coating for ocean-going vessels is 130 g/m<sup>2</sup>. With direct coating on cleaned or sanded laminates, please conduct a trial coating to check bonding! Harden at 5 : 1 with DR 4070 for particularly demanding surface conditions and on critical substrates. Hardening at 10 : 1 with DR 4071 is required for direct coating on MDF. Hardening at 10 : 1 with DR 4085 can accelerate thorough drying. (Be aware of the shorter shelf life). Hardening at 5 : 1 with DR 4076-0001 after previously mixing in 5 % Glass lacquer additive EL 460-0025 to the lacquer composition also enables direct lacquer application on glass following proper cleaning.

## Particular instructions

This product may only be combined with other approved and technically suitable products when it is used as a low-flammable coating for seagoing vessels according to the latest version of SOLAS 74 Reg. II-2/3, II-2/5, II-2/6 and X/3, as amended, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Circ. 1120. The specified certificates and resistance relate solely to DB 45245-(colour tone). Pre-priming is possible depending on the desired finish and substrate, for example using DP 4791-9343. Please use thinned MEGA-PUR DE 4503x(gloss level) or DE 4259x(gloss level) for the top coat if absolute ring and abrasion resistance or a different gloss level are required. **"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."**

## Technical data

Flow time		depending on Gloss level and colour tone
Proportion of renewable raw materi-		0.246 %
Non-volatile proportion		0 - 39.2 %
VOC FR		C
conditions of transport		frost-free - up to max. 35 °C
Shelf life in weeks		52
Storage temperature		16 - 40 °C
Number of coats (max)		2
Amount per layer (minimum)		80 g/m <sup>2</sup>
Amount per layer (max)		150 g/m <sup>2</sup>
Total application volume		300 g/m <sup>2</sup>
Mixing ratio (by volume)		10 : 1 PU Hardener DR 4070
Mixing information (gravimetric)		100 : 9 PU Hardener DR 4070






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## Particular properties / testing standards

Sign	Product standard / basis
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)
	Flame retardant to B1 according to DIN 4102; on suitable substrates.
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)
	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.
	Toy safety as per DIN EN 71-3

## Sample process

### Doctor's practice, open-pored ash with wetted pores, semi matt finish.

Wood sanding: 150 grit / dust removal)

Basecoat: 1 x Hesse UNA-COLOR DB 45245-9010 with so full a coating that the pores appear closed when wet (200 - 300 g/m<sup>2</sup>), mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070 and the addition of 30 - 40 % Thinner DV 4900.

Drying: at least 16 h / 20 °C

Lacquer sanding: 320 grit / dust removal

Coating: 1 x 100 - 150 g/m<sup>2</sup> Hesse UNA-COLOR DB 45245-9010, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070 and the addition of 20 - 30 % Thinner DV 4900. Allow 1 - 2 h / 20 °C and, without lacquer sanding, apply a top coat of 80 - 100 g/m<sup>2</sup> Hesse MEGA-PUR DE 45034, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070 and the addition of 10 % Thinner DV 4900.

Complete drying: at least 16 h / 20 °C

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## Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
DB 45242-9005	9005	9	matt
DB 45242-9010	9010	9	matt
DB 45245-100	WEISS	26	silk matt
DB 45245-101	GELB (GRUENSTICHIG)	25	silk matt
DB 45245-102	SCHWARZ	25	silk matt
DB 45245-103	OXIDGELB	25	silk matt
DB 45245-104	GRUEN	25	silk matt
DB 45245-105	BLAU	26	silk matt
DB 45245-106	OXIDROT	25	silk matt
DB 45245-109	VIOLETT	25	silk matt
DB 45245-110	BLAU(ROTSTICHIG)	25	silk matt
DB 45245-201	GELB	25	silk matt
DB 45245-207	ORANGE	26	silk matt
DB 45245-208	ROT(BLAUSTICHIG)	25	silk matt
DB 45245-210	VIOLETT (BLAUSTICHIG)	26	silk matt
DB 45245-308	ROT(GELBSTICHIG)	25	silk matt
DB 45245-501	GELB (ROTSTICHIG)	25	silk matt
DB 45245-7035	7035		silk matt
DB 45245-9001	9001		silk matt
DB 45245-9343	WEISS-9343	26	silk matt
DB 45245-9010	9010	25	silk matt
DB 45245-9003	9003		silk matt
DB 45245-9005	9005		silk matt
DB 45245-9016	9016	25	silk matt

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## Accessories

	Order number	Product description
<b>hardeners</b>	DR 4070	PU Hardener
<b>Thinners</b>	DV 4900	PU Thinner
	DV 4994	PU Thinner
<b>Retarder</b>	DV 4909	PU Retarder

## General instructions on workmanship

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!

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

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