

>Product description

DB 45205-(colour tone) is a **light fast** PU colour lacquer combined with a **thixotropic lacquer formulation** for **easy application on vertical surfaces** or components. 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 45205-(colour tone) can be coated with all customary intermediate and finishing lacquers for optimal metal marking resistance.

>Areas of application

DG 45205-(colour tone) can also 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

>Surface Preparation

Surface preparation	Perform cleaning by sanding on foil or melamine before coating.
Substrate sanding grits from-to	150 - 320
Lacquer sanding (grit) from - to	320 - 400
Comments on sanding	When directly coating cleaned or sanded foils, please apply a test coat to check the bonding. When applying a final coat of Hesse PU Coloured lacquer DB 45205-(colour tone) with high gloss, intermediate lacquer sanding with grit 600 - 800 is recommended.

>Finishing

Finishing	With another coat of the same. Please use Hesse MEGA-PUR DE 4503x(gloss level) or DE 4259x(gloss level) for top coating if complete metal marking and abrasion resistance or a different gloss level are required.
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>Times

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

>Application

Application	Nozzle size in mm	Spray pressure in bar	Atomising pressure in bar
Curtain coating			
Gap coating			
Poured rolling			
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			

>Processing instructions

The maximum total application amount when being used as a flame-retardant coating agent for seagoing vessels is 130 g/m². When directly coating cleaned or sanded foils, please apply a test coat to check the bonding. For particular strains on the surface and on critical carriers, harden with DR 4070 to the ratio of 5 : 1. A hardening additive ratio of 10 : 1 with DR 4071 is necessary for direct coatings onto MDF. A hardening additive ratio of 10 : 1 can accelerate complete drying (pay attention to shorter potlife here). The hardening additive ratio of 5 : 1 with DR 4076-0001 following prior mixture of 5 % Glass lacquer additive EL 460-0025 to lacquer products also makes it possible to apply the lacquer directly onto glass following prior cleaning in accordance with regulations.

>Technical data

Flow time (+/- 15 %)	45 s / DIN 53211 - 4 mm
Appearance	opaque
Form of delivery	fluid
VOC EU %	68 %
VOC FR	A+
Storage temperature	16 - 40 °C
Shelf life in weeks	52
Working temperature	20 °C
Number of coats (max)	2
Amount per layer (minimum)	80 g/m ²
Amount per layer (max)	150 g/m ²
Total application volume	300 g/m ²
Mixing ratio (by volume)	10 : 1 PU Hardener DR 4070
Mixing ratio (gravimetric)	100 : 9 PU Hardener DR 4070

>Ordering information

Order number	Colour tone	Gloss level 60° (Gloss)	Gloss level	Container Size
DB 45205-9005	9005	24 - 29	silk matt	1 l, 5 l, 25 l
DB 45205-9010	9010	24 - 29	silk matt	5 l, 25 l

>Hardeners

Order number	Product description	Container Size
DR 4070	PU Hardener	0.1 l, 0.5 l, 1 l, 2.5 l, 5 l, 15 l

>Thinners

Order number	Product description	Container Size
DV 4900	PU Thinner	1 l, 5 l, 15 l, 25 l
DV 4994	PU Thinner	1 l, 5 l, 15 l, 25 l

>Retarder

Order number	Product description	Container Size
DV 4909	PU Retarder	1 l, 5 l, 10 l, 15 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
GR 1900	Cleaning agent	1 l, 2.5 l, 3 l, 25 l

>Particular instructions

This product may only be combined with other approved and technically suitable products when it is used as a flame-retardant coating material for seagoing vessels according to the latest version of SOLAS 74/88 Regulations II-2/3, II-2/5 and II-2/6, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7 and IMO Resolution MSC.97(73)-(2000 HSC-Code) 7. Pre-priming is possible depending on the required finish and substrate material, for instance using DP 4755-9343 and DP 4791-9343., We would recommend using Hesse MEGA-PUR DE 4503x(gloss level) or Hesse UNA-PUR DE 4259x(gloss level) for the top coat if absolute metal-marking 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.”**

>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-THIX-COLOR DB 45205-9010 with so full a coating that the pores appear closed when wet (200 - 300 g/m²), 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)

Coating: 1 x 100 - 150 g/m² Hesse UNA-THIX-COLOR DB 45205-9010, 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/m² Hesse MEGA-PUR DE 45034, mixing ratio (by volume) 10 : 1 with PU Hardener DR 4070 and the addition of 10 % Thinner DV 4900.

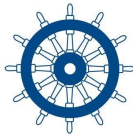




Complete drying: at least 16 h / 20 °C

>General information

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!

>Particular properties and/or testing standards


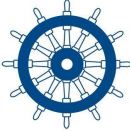
Test standard / basis	Testing laboratory	Mark	Report	No.
EC type examination certificate (module B); coating agent for seagoing vessels according to IMO Resolution MSC.307(88)-(FTP-Code 2010).	Trade association transport and traffic; Ship Safety Division, Hamburg		Approval No. U.S. Coast Guard Approval No.	116304-03 164.1127EC0736/11630
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			
DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)	HESSE			
Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)	HESSE			
PVC-resistant	HESSE			

Technical information

Hesse UNA-THIX-COLOR DB 4520x(gloss level)-(colour tone)

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

>Particular properties and/or testing standards

Test standard / basis	Testing laboratory	Mark	Report	No.
Flame retardant to B1 according to DIN 4102; on suitable substrates.	MPA-Stuttgart		Test certificate no. certificate of compliance	P-BWU03-I-16.5.408 ÜZ-BWU03-I 16.2.832
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.	116.487 164.112/ EC0736/116.487 (DB 45205-9016)

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.