



>Product description

Hesse COOL-COLOR HB 65285-(colour tone) is characterised by its elegant surface formation that results in good scratch resistance and durability. This light fast, acrylate-based 1C colour lacquer also features high opacity. The product is suitable for base and top coating with a wide field of application. Given its low VOC content, this product is also suitable for "Green Building" projects. It is additionally classified as flame retardant under DIN EN 13501-1.

>Areas of application

For all interior designs in residential settings on suitable woods, pigment fillers, primers and priming foils after corresponding sanding. For furniture surfaces throughout all interiors; for stairs, doors, ledges, etc. Also suitable for coating decorative glass surfaces after adding HYDRO cross-linker.

>Surface Preparation

Surface preparation	Clean, well-seasoned wood, or clean, suitable laminate base, free from oil, grease, wax and silicones. Sanded as prescribed and free from sanding dust. Matching pigment filler, sanded as prescribed and free from sanding dust. The quality of the intermediate sanding is decisive for the final surface.
Substrate sanding grits from-to	120 - 400
Lacquer sanding (grit) from - to	280 - 320
Comments on sanding	Along with the MDF quality and the film quality, the quality and uniformity of the wood sanding, MDF sanding or foil sanding, as well as the lacquer sanding, are critical for the quality of the final surface. After sanding, remove dust as prescribed.

>Finishing

Finishing	After light surface sanding, it can be top coated using the same product or with a product like COOL-TOP HE 6509x(gloss level). To further increase its resistance, COOL-COLOR can also be recoated using 2C HYDRO systems, such as HYDRO-PU PRIMO HDE 5400x(gloss level) or other 2C systems.
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>Times

Working Temperature Range	18 - 22 °C
conditions of transport	10 - 30 °C
Drying	4 h / 20 °C
Subsequent coating within	4 h / 20 °C
Stackable after	> 16 h / 20 °C
Complete drying	24 h / 20 °C

>Application

Application	Nozzle size in mm	Spray pressure in bar	Atomising pressure in bar
Spraying			
Air mix	0,23 - 0,38	60 - 100	1,5 - 2,5
Compressed air spraying	1,5 - 2,0	2,5 - 4	
Airless	0,23 - 0,38	100 - 120	



>Processing instructions

When directly coating cleaned or sanded foils, please apply a test coat to check the bonding! When being used on coarse-pored woods, the addition of up to 5 % of HYDRO Optimizer HZ 70 improves pore wetting and pore appearance. Can be coated over: after 3 - 4 hours at 20 °C room temperature and with adequate air circulation with another coat of the same or with a matching clear product. Clean tools with water. For removal of dried lacquer residues use Hesse HYDRO Cleaning agent HV 6917. In case of combined coatings (HYDRO- and solvent based lacquers) rinse application tools with Hesse HYDRO Reversing agent HV 6904.

The addition of 3 % HYDRO Cross-linker HDR 5002 to the lacquer can be used to coat glass surfaces for decorative purposes in interior design. Please clean the glass surfaces carefully prior to coating. When coating behind glass the colour of the glass will influence the final colour tone. Please conduct a trial coating!

This product must only be combined with other approved and technically suitable products when used as a flame retardant coating material for seagoing vessels according to the latest version of SOLAS 74/88 Reg. 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. The maximum application amount in wet film when using this product as a flame retardant coating material for seagoing vessels is 120 g/m².

>Technical data

Flow time (+/- 15 %)	33 s / DIN 53211 - 6 mm
Appearance	opaque
Decopaint basis	WB
Decopaint category	I
Form of delivery	fluid
VOC EU %	1 %
VOC FR	C
Working Temperature Range	18 - 22 °C
Storage temperature	10 - 30 °C
Shelf life in weeks	52
conditions of transport	10 - 30 °C
Working temperature	20 °C
Number of coats (max)	2
Amount per layer (minimum)	100 g/m ²
Amount per layer (max)	150 g/m ²
Total application volume	300 g/m ²

>Ordering information

Order number	Colour tone	Gloss level 60° (Gloss)	Gloss level	Container Size
HB 65282-9010	9010	8 - 12	matt	1 l, 5 l, 25 l
HB 65285-9005	9005	24 - 29	silk matt	1 l, 5 l, 25 l
HB 65285-9010	9010	24 - 29	silk matt	1 l, 5 l, 25 l

>Equipment cleaner

Order number	Product description	Container Size
WASSER	water	1 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



>Supplementary products

Order number	Product description	Container Size
HZ 70	HYDRO Optimizer	1 l, 5 l, 15 l, 25 l
HV 6904	HYDRO Reversing agent	0.25 l, 1 l, 5 l, 25 l
HV 6917	HYDRO Cleaning agent	1 l, 5 l, 25 l
HDR 5002	HYDRO crosslinker	0.25 l, 1 l, 5 l, 15 l, 25 l

>Particular instructions

Woods rich in active substances, such as ash, which tend to discolour when coated with pastel-coloured HYDRO colour systems should always be coated with 2C primers. For example, Hesse HYDRO-PU Lacquer HDB 54705-(colour tone) would be suitable. Pre-priming is possible depending on the required finish and carrier material, for instance using: HP 6645-9343, HDP 5640-9343, DP 4755-9343. Pre-prime exotic woods such as Macassar or extremely resinous knotty pine with PU sealing primer DG 4720-0001. If absolute ring stain and colour abrasion resistance or a different gloss level are required, we recommend finishing with a product such as HE 6509x(gloss level), HDE 5400x(gloss level) or HDE 54799. Please be aware: When top coating coloured lacquer surfaces there may be changes in the colour tone. Please conduct a test coat! The bond on sanded laminate surfaces should be checked on the basis of a sample coating under practical conditions, because the quality of the laminate has a significant influence on the bond of the subsequent lacquer system! **When used on staircases (treads) we recommend finishing the colour lacquer surface with Hesse COOL-TOP HE 6509x(gloss level) or other HYDRO staircase lacquers.**

We recommend our Glass lacquer range HDB 57485-(colour tone) for coating glass surfaces that come into contact with water or that are exposed to heavier use.

"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

Substrate sanding: e.g. 280 grit with subsequent dust removal.

Base coat: 1 x 200 - 250 g/m² Hesse COOL-FILL HP 6645-9343.

Drying: at least 5 h / 20 °C, preferably 16 h / 20 °C room temperature and with adequate air circulation.

Lacquer sanding: 400 grit with subsequent dust removal.

Top coat: 1 - 2 x 100 - 130 g/m² Hesse COOL-COLOR HB 65285-9010.

Intermediate drying: for 2-coat lacquering at least 4 h / 20 °C room temperature and with adequate air circulation.

Lacquer sanding: lightly smooth with 400 grit and subsequent dust removal.

Complete drying: at least 24 h / 20 °C room temperature and with adequate air circulation.

>General information

When working with HYDRO materials, parts that come into contact with the material must be made from stainless steel. The moisture content should be between 8 - 12 %. Do not apply or dry HYDRO lacquers at material or room temperatures below 18 °C. The ideal humidity for application lies between 55 and 65 %. During the lacquering process, a humidity level that is too low leads to surface defects (such as shrink cracks, etc.). Excessive humidity during the drying phase may drastically lengthen the drying time! In order to avoid adhesion problems, please sand the lacquered surfaces freshly before coating and apply lacquer to the sanded surfaces as soon as possible. When applied to foils, etc., please use a sample coating on the respective substrate to check the adhesion! The ideal complete hardening of lacquered surfaces that have been flashed off is reached at temperatures over 20 °C up to no more than 40 °C. Adequate, draft-free air exchange must be assured. The complete hardening of the lacquer will be reached after one week of proper storage (at least 20 °C room temperature). Woods containing large amounts of natural oils, such as teak, can negatively influence adhesion under certain circumstances. Water-soluble wood ingredients such those in ash and tannins in woods such as oak may cause colour changes and discolourations in the coating. We recommend that you always conduct a sample lacquering to evaluate the colour effect, adhesion and drying process under real conditions!



>Particular properties and/or testing standards

Test standard / basis	Testing laboratory	Mark	Report	No.
Product meets the requirements of solvent based paints and coatings regulation - ChemVOCFarbV (German ordinance on solvent-based paints and varnishes) - according to the national implementation of 2004/42/EG ("Decopaint Directive").	HESSE			
Toy safety DIN EN 71-3 (2014-12)	OST-THÜRINGISCHE MATERIALPRÜFUNGSGESELLSCHAFT		Test report	pending
Green Building - Applicable Standard Specification: 2010 Dubai Green Building Regulations and Specifications (GBRS) Applicable Specific Rules: RD-DP21-2180-(IC) Specific Rules for Certification of Paints and Coating through Factory Assessment as per the 2010 Dubai Green Building Regulations and Specifications.	Dubai Central Laboratory		Certificate No:	CL15020251
DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)	HESSE			
Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials	MPA-Stuttgart		Classification:	C-s1, d0
Meets the requirements under RAL UZ 12a ("Blue Angel")	HESSE			
Construction book registered				
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.	116571-00 164.112/ EC0736/ 116571-00

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.