Technical information

Hesse COOL-COLOR HB 6528x(gloss level)-(colour tone)

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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.

Area of application

- Internal fit-out
- Furniture
- Special applications
- Stairs

Substrate material

- suitably pre-primed

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.
Substrate sanding grits		120 - 400
Lacquer sanding grit		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.

Application

Application		Spray nozzle size	Spray pressure	Atomizing pressure
Airmix		0,23 - 0,38 mm	60 - 100 bar	1,5 - 2,5 bar
Compressed air spraying		1,5 - 2 mm		

Times

Stackable after		16 h / 20 °C

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Finishing

Finishing	After light sanding with itself or with e.g. COOL-TOP HE 6509x(gloss level). To increase resistance, COOL-COLOR can also be top coated with 2C HYDRO systems, e.g. PERFECT-TOP HDE 5400x(gloss level).

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.

Particular instructions

Complete final drying and stackability are dependent on the colour tone selected, as well as the quantity applied and the drying and environmental parameters. For stacking or packing, a suitable intermediate layer (e. g. soft paper tissue or cotton cloth) prevents sticking and subsequent damage to the lacquered surfaces. 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 PERFECT-COLOR HDB 5434x(gloss level)-(colour tone) would be suitable. Pre-priming is possible depending on the required finish and substrate, for instance using COOL-PROTECT HI 6600-9343, COOL-FILL HP 6645-9343, 2C HYDRO Pigment filler HDP 5650-9343 and FANTASTIC-FILL DP 4755-9343. Exotic woods such as Macassar or extremely resinous knotty pine can be pre-primed using either PU Isolating primer DG 4720-0001 or COOL-PROTECT HI 6600-9343.

When used on woods which are particularly content-rich (such as poplar, Hevea brasiliensis, particular knotty pines, exotic woods, etc.), the number of isolating layers and the quality of the coating should be determined in advance on the original substrate. Should absolute ring and colour abrasion resistance or a different gloss level be required, we recommend finishing with a product such as COOL-TOP HE 6509x(gloss level), HYDRO-PU PRIMO HDE 5400x(gloss level) or Hesse 2C HYDRO-PU Brillant lacquer HDE 54799. Please note that there may be changes in the colour tone when top coating on colour lacquer surfaces. 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."

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Technical data

Flow time (+/- 15%)	33 s / DIN6
Yield per coat	10 - 16 m²/l The spreading rate is heavily dependent on the type of application. The specifications relate to a liter of ready-for-use product, if necessary including hardener and thinner.
Proportion of renewable raw materi-	0 %
Non-volatile proportion	26.8 - 50.8 %
VOC FR	C
conditions of transport	10 - 30 °C
Shelf life in weeks	52
Storage temperature	10 - 30 °C
Working Temperature Range	18 - 22 °C
Number of coats (max)	2
Amount per layer (minimum)	100 g/m²
Amount per layer (max)	140 g/m²
Total application volume	280 g/m²

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Particular properties / testing standards

Sign	Product standard / basis
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)
	Meets the requirements under RAL UZ 12a ("Blue Angel")
	Construction book registered
	Toy safety as per DIN EN 71-3
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)
	Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials
	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 ").
	The DGNB criteria of quality level 3 for coatings on non-mineral substrates are met.
	Examination for scratch resistance according to ISO 1518-1:2019
	Green Building - Applicable Standard Specification: Standard Specification: 2023 Al Sa'fat – Dubai Green Building System 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.

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.

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Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
HB 65285-9016	9016		silk matt
HB 65285-9343	WEISS		silk matt
HB 65285-9010	9010	26	silk matt
HB 65285-9005	9005		silk matt

Accessories

	Order number	Product description
Equipment cleaner	Water	

General instructions on workmanship

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!

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