

Technical information

Hesse HYDRO ECO-TOP HE 6599x(gloss level)

Product description

Our clear Hesse HYDRO ECO-TOP is convincing due to its resistance, especially against mechanical demands. This 1C multicoat lacquer provides great accentuation of the wood, is fast drying and can also be used on bleached woods.

Areas of application

In the entire interior in the living areas, for doors, living room furniture, cabinets and children's furniture, as well as for banisters.

Area of application

- Internal fit-out
- Furniture
- Special applications




Substrate material

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- light deciduous woods with fine pores
- light deciduous woods with coarse pores

Surface Preparation

Surface preparation

Clean, dry wood, free of oil, grease, wax and silicones. Sanded as prescribed and free from sanding dust.

Substrate sanding grits		120 - 220
Lacquer sanding grit		280 - 320
Comments on sanding		The quality and uniformity of the wood and of the lacquer sanding are crucial to the final surface finish. After sanding, remove dust as prescribed.

Application



Application		Spray nozzle size	Spray pressure	Atomizing pressure
Airless		0,23 - 0,38 mm	100 - 120 bar	
Airmix		0,23 - 0,38 mm		1,5 - 2,5 bar
Compressed air spraying		1,5 - 2 mm	2,5 - 4 bar	

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Times

Drying		2 h / 20 °C
Stackable after		16 h / 20 °C
Complete drying		1 d / 20 °C

Processing instructions

Recoatibility: with itself following proper sanding. 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.

Technical data











Flow time (+/- 15%)		35 s / DIN6
Yield per coat		7 - 13 m ² /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		22.8 - 28.3 %
VOC FR		A+
conditions of transport		10 - 30 °C
Shelf life in weeks		26
Storage temperature		10 - 30 °C
Working Temperature Range		18 - 22 °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

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Particular properties / testing standards

Sign	Product standard / basis
	Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)
	PVC-resistant
	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 ("Deco-paint Directive").
	Toy safety as per DIN EN 71-3
	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.
	PAH content according to AfPS GS 2014:01; Category 1
	DIN 68861-Part 1 (finishes; behaviour under abrasion conditions)
	DIN 68861-Part 2 (finishes; behaviour under abrasion conditions)
	DIN 68861-Part 4 (finishes; Behaviour under scratch conditions)
	certified as per IKEA standards

Sample process

The coating process and the precise treatment parameters are adapted in each case to the respective application and drying conditions and can be found in the customer-specific process descriptions (surface techniques).

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Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
HE 65992		10	matt
HE 65994		20	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!

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

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