

Technical information

Hesse COOL-TOP HE 6509x(gloss level)

Product description

Hesse COOL-TOP HE 6509x(gloss level) is a light fast and colourless 1C multicoat lacquer with very good chemical and mechanical resistance and good sanding properties. The product has a wide field of application and is suitable both for priming and top coating of open- to closed-pore structures, e.g. for coating staircases to be creak-free. Our acrylate-based COOL-TOP is equally suitable for coating children's toys as per DIN EN 71-3 and its very low VOC content means it can also be used for "Green Building" projects.

Areas of application

In the entire interior and for coating furniture, stairs and handrails; usable on many different types of wood.

Area of application

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

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 / substrate 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				
Airmix		0,23 - 0,38 mm	60 - 100 bar	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

Finishing

Finishing After sufficient drying time and intermediate sanding, another coat of the same.

Processing instructions

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 100 g/m².

Particular instructions













When being used on coarse-pored woods, the addition of up to 5 % of HYDRO Optimizer HZ 70 improves pore wetting and pore appearance. Over-paintability: possible with another coat of the same product or with suitable colourless materials. Also suitable as a top coat on coloured HYDRO coats. Recoating without intermediate sanding is only possible within 6 h (without forced drying). Non-slip factor R10 as per DIN 51130 is achieved by adding 10 % Hesse Additive HZ 75 to the final coat of lacquer. 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. "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%)	 30 s / DIN6
Yield per coat	 9 - 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.
Giscode	W2+
Proportion of renewable raw materi-	 0 %
Non-volatile proportion	 32.4 - 34.7 %
VOC FR	A+
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)	 3
Amount per layer (minimum)	 80 g/m ²
Amount per layer (max)	 120 g/m ²
Total application volume	 MAX 360 g/m ²

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Particular properties / testing standards

Sign	Product standard / basis
	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").
	PVC-resistant
	PAH content according to AfPS GS 2014:01; Category 1
	DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)
	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.
	Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)
	Non-slip class R10 per DIN 51130
	Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials
	Meets the requirements under RAL UZ 12a ("Blue Angel")
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)
	Construction book registered
	Ball throwing safety test based on DIN 18032-3: 2018, restricted to the firing of a hockey ball

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Sample process

Nursery furniture, natural maple, semi matt

Wood-sanding grit 150 - 180 with subsequent dust removal.

Coating 2 x with 100 - 120 g/m² Hesse COOL-TOP HE 65094.

Intermediate drying for at least 2 - 3 h / 20 °C room temperature with sufficient air circulation. Intermediate sanding grit 280 with subsequent dust removal.

Packable: after drying for at least 16 h / 20 °C room temperature with sufficient air circulation.

Ordering information

Order number	Colour tone	Gloss level 60° (Gloss +/-5)	Gloss level
HE 65091		5	dull matt
HE 65092		10	matt
HE 65093		15	matt
HE 65094		20	silk matt
HE 65096		30	satin gloss
HE 65097		42	satin gloss

Accessories

	Order number	Product description
Equipment cleaner	HV 6904	HYDRO Reversing agent
	HV 6917	HYDRO Cleaning agent

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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