

>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.

>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 from-to	120 - 220
Lacquer sanding (grit) from - to	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.

>Finishing

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

>Times

Working Temperature Range	18 - 22 °C
conditions of transport	10 - 30 °C
Drying	2 h / 20 °C
Stackable after	> 16 h / 20 °C
Complete drying	1 d / 20 °C

>Application

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

>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.



>Technical data

Flow time (+/- 15 %)	30 s / DIN 53211 - 6 mm
Appearance	colourless
Decopaint basis	WB
Decopaint category	I
Density series kg/l	1.037 - 1.053
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+
Form of delivery	fluid
Non-volatile content series %	33 - 35
VOC EU %	3 %
VOC FR	A+
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)	3
Amount per layer (minimum)	80 g/m ²
Amount per layer (max)	120 g/m ²
Total application volume	360 g/m ²

>Ordering information

Order number	Gloss level 60° (Gloss)	Gloss level	Container Size
HE 65091	4 - 7	dull matt	25 l
HE 65092	8 - 12	matt	5 l, 25 l
HE 65093	13 - 17	matt	5 l, 25 l
HE 65094	18 - 23	silk matt	5 l, 25 l
HE 65096	30 - 39	satin gloss	5 l, 25 l
HE 65097	40 - 59	satin gloss	5 l, 25 l
HE 65098	60 - 89	glossy	25 l

>Equipment cleaner

Order number	Product description	Container Size
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

>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



>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."**





>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.



>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			
PVC-resistant	HESSE			
DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)	HESSE			
Green Building - Applicable Standard Specification: 2010 Dubai Green Building Regula-	Dubai Central Laboratory		Certificate No:	CL15020251 (HE 65096)

>Particular properties and/or testing standards

Test standard / basis	Testing laboratory	Mark	Report	No.
tions 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)	HESSE			
Non-slip class R10 per DIN 51130	SFV		Test certificate number	After adding 10 % Hesse Additive HZ 75 to the final coat of lacquer.
Toy safety DIN EN 71-3 (2014-12)	TÜV Rheinland LGA		Test report	pending
Meets the requirements under RAL UZ 12a ("Blue Angel")	HESSE			
Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials	MPA Stuttgart		Classification:	pending
Ball throwing safety test based on DIN 18032-3: 2018, restricted to the firing of a hockey ball	OFI Technologie & Innovation		Test report	2002370-1
Construction book registered	HESSE			
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.	116572-00 164.112/ EC0736/ 116572-00
	OST-THÜRINGISCHE MATERIALPRÜFUNGSGESELLSCHAFT		Prüfbericht (HE 65096)	beantragt

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.