

# Technical information

## Hesse COOL-PROTECT HI 6600-9343

### Product description

COOL-PROTECT is a thixotropic 1K HYDRO Pigment filler with powerful filling properties and outstanding isolating characteristics relative to the contents of the wood. As an isolating primer under coloured finished, it reliably seals off the wood content and prevents bleeding into the colouring coat. It is also easy to apply on vertical surfaces and has good sanding properties. An ideal base for other HYDRO Pigment fillers or colour lacquers.

### Areas of application

In the complete field of interior fittings for the living area on various types of wood: MDF, including MDF edges. For furniture surfaces in the complete field of interior fittings: stairs, doors, ledges etc.

### Area of application

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

### Substrate material


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

### 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 - 400

**Lacquer sanding grit**  280 - 400

**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.

Beware! Do not sand through the basecoat as there is a risk of staining.

### Application

Application	Spray nozzle size	Spray pressure	Atomizing pressure
<b>Airless</b> 	0,23 - 0,38 mm	100 - 120 bar	
<b>Airmix</b> 	0,23 - 0,38 mm	60 - 100 bar	1,5 - 2,5 bar
<b>Compressed air spraying</b>	1,5 - 2 mm	2,5 - 4 bar	

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### Finishing

#### Finishing

Overcoatability: can be recoated after sufficient drying and intermediate sanding using another coat of the same and most HYDRO products, including COOL-FILL HP 6645-9343, COOL-COLOR HB 65285-(colour tone) or PERFECT-COLOR HDB 54345-(colour tone).

### Processing instructions

COOL-PROTECT is usually applied 1 - 3 x with sufficient intermediate drying and optional intermediate sanding. Before the final treatment with other lacquer systems, it is necessary to sand the isolation filler. Warning: do not sand through! Clean tools with water. For removal of dried lacquer residues use HYDRO Cleaning agent HV 6917. In case of combined coatings (HYDRO- and solvent based lacquers) rinse application tools with HYDRO Reversing agent HV 6904.

### Particular instructions

#### Stir the material well before processing.

This product is supplied ready-for-use and may be diluted with up to 5 % water if required.








Resin seepage is natural and cannot be wholly prevented via technical coating measures, see BFS (German Federal Committee for Paints and Protective Coatings) Information sheet no. 18

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.

Experience shows that the first isolating layer activates the contents of the wood and embeds them in the lacquer layer. The second layer (or the third lacquer layer at most given extremely intensive wood contents) reliably isolates them and prevents any negative impact on the coloured top coat.

"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 or a risk to the environment when cured and dried."

### Technical data







Flow time (+/- 15%)		40 s / DIN6
Proportion of renewable raw materi-		0 %
Non-volatile proportion		53 %
VOC FR		C
conditions of transport		10 - 30 °C
Shelf life in weeks		26
Storage temperature		10 - 30 °C
Working Temperature Range		18 - 22 °C

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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)
	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").
	Classification of fire behaviour under DIN EN 13501-1 on validated substrate materials
	Construction book registered
	Toy safety as per DIN EN 71-3
	Meets the requirements under RAL UZ 12a ("Blue Angel")

### Sample process

Substrate material: Hevea

Substrate sanding: e. g. 220 - 280 grit with subsequent de-dusting.

Basecoat: 2 x 130 - 150 g/m<sup>2</sup> COOL-PROTECT HI 6600-9343.

Intermediate drying at least 4 h / 20 °C to improve the isolating effect, preferably 16 h / 20 °C room temperature with adequate air circulation.

Graduated intermediate sanding: grain 240 - 320 with subsequent de-dusting.

Top coat: 1 x 110 - 130 g/m<sup>2</sup> COOL-COLOR HB 65285-9010.

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
HI 6600-9343	WEISS		

### Accessories

	Order number	Product description
Equipment cleaner	Water	
	Water	

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### 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 as 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! With MDF coatings, you can avoid painting faults and edge breaks if you observe the following: Selection of a suitable MDF quality for the area of application, see manufacturer data on EU standard EN 622-5, pt. 4 Test method EN 317 (requirements on thickness swelling). Ideal panel moisture 5 - 7 %. If possible coat the MDF all around, the backs should at least receive a clear coating. Avoid sharp edges and cutaways, round-off wherever possible. Coat edges and cutaways 2x with primers, do not sand through, if need be, prime again. Thick boards that have been created by gluing together several thinner boards are, due to the variance in tension, susceptible to edge ridging. It is better to select a single MDF board of the appropriate thickness. Panels that have been glued together should always be sanded flat at the edges and colourlessly pre-insulated. Any water introduced by gluing must be allowed to evaporate prior to coating. Store primer-coated surfaces in an air conditioned location and apply the final coat in a timely manner.

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](http://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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