

Technical information

Hesse PERFECT-SOFT-COLOR HDB 54650-(color tone)

Mixing ratio (by volume): 10 : 1 HYDRO Hardener HDR 5091

Product description

Our coloured, velvety-soft PERFECT-SOFT-COLOR is persuasive due to its low glare behaviour and superb mechanical resistance. Its dull matt, soft-touch surface creates a pleasant feel and is in line with the latest trend in surface design. The wide range of configurable colour tones makes PERFECT-SOFT-COLOR a flexible design option for everyday surfaces.

Areas of application

PERFECT-SOFT-COLOR is ideal for use in entire living areas and offers versatile design opportunities.

Area of application

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

Substrate material

- MDF
- suitably pre-primed

Surface Preparation






Surface preparation

On PERFECT-FILL HDP 5650-9343 or -9005 and COOL-FILL HP 6645-9343 or -9005. The substrate must be dry, clean, sound, free from separating substances such as grease, wax, silicone, resin, etc., free from dust and tested for suitability for coating.

Substrate sanding grits  240 - 280

Lacquer sanding grit  320 - 400

Application

Application	Spray nozzle size	Spray pressure	Atomizing pressure
2C line			
Airless	 0.23 - 0.38 mm		
Airless low pressure			
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	
Automatic spray gun			





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Times

Pot life	 2 h / 20 °C
Drying	 3 h / 20 °C
Stackable after	 1 d / 20 °C
Complete drying	 7 d / 20 °C

Finishing

Finishing

PERFECT-SOFT-COLOR is formulated as a dull matt, soft matt Colour lacquer with top coating properties. PERFECT-SOFT-COLOR can be recoated with itself for repair purposes. PERFECT-SOFT-COLOR can be recoated with itself without sanding after drying for > 2 h / 20 °C and at the latest after < 8 h / 20 °C. Lacquer sanding is required after drying for > 8 h / 20 °C!

Processing instructions

Add the hardener slowly while stirring. Then adjust the spray viscosity as necessary by adding water or HYDRO Optimizer HZ 70. Maximum added quantity 5 %. The hardener must always be added before dilution! The flow time should not be less than 40 s / DIN 4 mm after hardening and thinning. Never store any material mixed with hardener in closed packaging. Use water to clean work tools. Use Hesse HYDRO Cleaning agent HV 6917 to remove any dried lacquer residues. Rinse out combined application devices (HYDRO and solvent lacquers) using Hesse HYDRO Reversing agent HV 6904.

Particular instructions

PERFECT-SOFT-COLOR HDB 54650-(colour tone) in combination with PERFECT-FILL HDP 5650-9343 or -9005 and/or COOL-FILL HP 6645-9343 or -9005 and/or PERFECT-COLOR HDB 54345-(colour tone) should exclusively be applied onto substrates capable of being lacquered.

PERFECT-SOFT-COLOR meets the requirements of DIN 68861 1b with the exception of pure white and pastel colour tones. Its scope of application depends on the colour tone. Pure white and pastel colour tones meet the requirements except for a few colouring test media.
















Cleaning and care instructions: please only use soft, damp cloths made from the likes of microfibre or gauze. To achieve a grease-dissolving and/or cleaning effect we recommend Hesse Cleaning agents PROTECT-CLEANER PR 90 or INTENSIV-CLEANER PR 91.

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Technical data

Flow time (+/- 15%)		28 s / DIN6
Proportion of renewable raw materi-		0.44 %
NfA		35.4 - 44.9 %
VOC EU		1.88 - 2.48 %
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)		2
Amount per layer (minimum)		120 g/m ²
Amount per layer (max)		140 g/m ²
Total application volume		240 g/m ²
Mixing ratio (by volume)		10 : 1 HYDRO Hardener HDR 5091
Mixing information (gravimetric)		100 : 9 HYDRO Hardener HDR 5091

Particular properties / testing standards

Sign	Product standard / basis	Sign	Product standard / basis
	PVC-resistant		Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)
	Product meets the requirements of solvent based paints and coatings regulation - ChemVOCFarbV (German ordinance on solvent-based paints and		DIN 68861-Part 2 (finishes; behaviour under abrasion conditions)
	German Industrial Standard 68861-Part 1B (finishes; behaviour when exposed to chemicals with the exception of pure white and pastel shades)		DIN 68861-Part 4 (finishes; Behaviour under scratch conditions)
	Toy safety as per DIN EN 71-3		The DGNB criteria for quality level 4 (VOC specifications Blue Angel RAL UZ 12a) are met. (Manufacturer's declaration available on request)

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Sample process

Substrate: foil-coated MDF with ABS edges capable of being lacquered

Substrate sanding: 240 – 280 grit with subsequent dedusting

Basecoat: 1 x 130 - 150 g/m² PERFECT-FILL HDP 5650-9343, mixing ratio (by volume) 8 : 1 with HYDRO Hardener HDR 5091

Intermediate drying: at least 4 h / 20 °C room preferably 16 h / 20 °C room temperature with sufficient air circulation

Intermediate sanding: graduated from 240 - 320 with subsequent dedusting

Top coat: 1 x 120 - 140 g/m² PERFECT-SOFT-COLOR HDB 54650-(colour tone), mixing ratio (by volume) 10 : 1 with HYDRO Hardener HDR 5091. Packable: after drying for > 16 h / 20 °C room temperature with sufficient air circulation

Ordering information

Order number	Colour tone	Gloss level
HDB 54650-9010	9010	dull matt
HDB 54650-9005	9005	dull matt

Accessories

	Order number	Product description
hardeners	HDR 5091	HYDRO Hardener
Retarder	HZ 5-56	HYDRO Retarder
Equipment cleaner	HV 6917	HYDRO Cleaning agent
	HV 6904	HYDRO Reversing 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 and 12 %. Do not work with or dry HYDRO lacquers at material or room temperatures below 18 °C. The ideal humidity level for application lies between 55 and 65 %. If room humidity is too low during the lacquering process, this may lead to surface imperfections (e.g. shrinkage cracks etc.). Excess ambient humidity during the drying phase will in some cases drastically prolong the drying time of the lacquer! In order to avoid problems with adhesion, please sand the lacquered surfaces before applying fresh lacquer and apply lacquer to the sanded surfaces as soon as possible. When applied to plywood etc., please use a sample coating on the respective substrate to check the adhesion! The ideal hardening of lacquered surfaces that have been flashed off is reached at temperatures over 20 °C and no more than 40 °C. Ensure a sufficient, draught-free air exchange. Final hardness of the coating is achieved after one week in correct storage conditions (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!

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.

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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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