

## Technical information

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

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

## Product description

The coloured, velvety-soft PERFECT-SOFT-COLOR impresses with its low gloss and very good mechanical resistance. The dull matt soft-touch surface ensures a pleasant feel and follows the current zeitgeist in surface design. The wide range of adjustable color tones makes PERFECT-SOFT-COLOR a flexible design option for everyday surfaces.

## Areas of application

PERFECT-SOFT-COLOR is ideal for use in all living areas and offers a wide range of design options.

### 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 |
|-------------------------|---|-------------------|----------------|--------------------|
| <b>2C line</b>          |   |                   |                |                    |
| 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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## Finishing

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

## Processing instructions

Add hardener in a slow stream while stirring. Then, if necessary, adjust the spray viscosity by adding water or HYDRO Optimizer HZ 70. Maximum addition rate 5 %. The hardener must always be added before diluting! After hardening and thinning, the flow time should not be less than 40" / German Industrial Standard 4 mm. Do not store material mixed with hardener in closed packaging. Clean work tools with water. Use Hesse HYDRO Cleaner HV 6917 to remove dried lacquer residues. For combined work (water-based and solvent-based lacquers), rinse application equipment with Hesse HYDRO Rewetting agent HV 6904.

## Particular instructions

PERFECT-SOFT-COLOR HDB 54650-(color tone) is to be processed exclusively in combination with PERFECT-FILL HDP 5650-9343 or -9005 as well as COOL-FILL HP 6645-9343 or -9005 and PERFECT-COLOR HDB 54345-(color tone) on substrates suitable for painting.

**PERFECT-SOFT-COLOR complies with German Industrial Standard 68861 1b with the exception of pure white and pastel shades. The area of application depends on the color shade. Pure white and pastel shades meet the requirements with the exception of a few coloring test agents.**

Cleaning and care instructions: Please use damp, soft cloths, e.g. made of microfiber or gauze. The Hesse cleaners PROTECT-CLEANER PR 90 or INTENSIVE-CLEANER PR 91 are recommended for a grease-dissolving or cleaning effect. Apply both CLEANERS in the specified mixing ratio with water and clean the soiled surface under light pressure. Then remove the surplus completely. Cleaners that are too wet and not completely removed can lead to staining. Please refer to the technical information for the products PR 90 and PR 91. Please remove staining liquids such as red wine, coffee, tea, mustard etc. immediately to avoid permanent discoloration.














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### Technical data

|                                     |   |                                 |
|-------------------------------------|---|---------------------------------|
| Flow time (+/- 15%)                 |    | 28 s / DIN6                     |
| Proportion of renewable raw materi- |    | 0 %                             |
| Non-volatile proportion             |    | 35.4 - 44.9 %                   |
| VOC FR                              |   | C                               |
| 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 <sup>2</sup>            |
| Amount per layer (max)              |    | 140 g/m <sup>2</sup>            |
| Total application volume            |   | 240 g/m <sup>2</sup>            |
| 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   |   |   |

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## Sample process

Substrate: Foil-coated MDF with paintable ABS edges

Substrate sanding: 240 - 280 grit with subsequent dedusting

Primer: 1 x 130 - 150 g/m<sup>2</sup> PERFECT-FILL HDP 5650-9343, mixing ratio (by volume) 8 : 1 with HYDRO Hardener HDR 5091

Intermediate drying: at least 4 h / at 20 °C, better 16 h / at 20 °C room temperature and sufficient air circulation

Intermediate sanding: graduated, sanding grain 240 - 320 with subsequent dedusting

Top coat: 1 x 120 - 140 g/m<sup>2</sup> PERFECT-SOFR-COLOR HDB 54650-(color tone), mixing ratio (by volume) 10 : 1 with HYDRO Hardener HDR 5091. Packable: after drying for > 16 h / at 20 °C room temperature and sufficient air circulation.

## Accessories

|                          | Order number | Product description   |
|--------------------------|--------------|-----------------------|
| <b>hardeners</b>         | HDR 5091     | HYDRO Hardener        |
| <b>Equipment cleaner</b> | 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 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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