Technical Information

Hesse Lignal
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Coating: Recoating of HYDRO stains with water-based lacquers

The following points must be observed when using water-based stains:

Due to their composition, water-based lacquers can react more severely with the components of wood than solvent-based lacquers.

1. Water-based lacquers and water-based stains can dissolve water-soluble components of wood.
2. Water-based lacquers can dissolve colourants from some water-based stains.

Therefore:
- Not every water-based lacquer is equally suitable for use on a stained surface.
- And not every water-based stain can be used equally well on any type of wood.
- An optimal result can be achieved by working in the right way.

Application example 1: White stain on oak
For a white stain on a type of wood that contains a large proportion of wood components (such as oak), the use of a "barrier layer" prevents the undesirable colour change caused by finishing with a water-based lacquer system.

For this reason, we recommend using the following before staining:
- HYPERION TI 130, an innovative, water-based isolation product that was specifically developed for applications involving white-pigmented water-based stains.

You can then stain the wood as desired and finish it with a HYDRO varnish.

Or alternatively after staining:
- FANTASTIC-CLEAR DE 48774 in a mixing ratio (by volume) of 10 : 1 with PU Hardener DR 4071 as a basecoat.

A coat of HYDRO Lacquer can then be applied as desired.

Application example 2: Vibrant stain
Colourants in particular can dissolve out of some stains if they are lacquered with unsuitable water-based lacquers. The following stains from the Hesse colour tone cards are suitable for lacquering with water-based lacquer:

- PICEA Softwood stain **WN 20…**
- HYDRO Colour stain **BC …**
- HYDRO Priming stain **BG 200…**
- HYDRO Rustic stain **WRB …**
- HYDRO Multi stain **WUE …**

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These stains can be applied with the following HYDRO lacquers, even in combination:

- COOL-TOP **HE 6509x(gloss level)**
- COOL-BASE **HG 6580**
- PERFECT-TOP **HDE 5400x(gloss level)** in mixing ratio (by volume) 10 : 1 with HYDRO Hardener HDR 5091
- PERFECT-BASE **HDG 5407** in mixing ratio (by volume) 5 : 1 with HYDRO Hardener HDR 5091

Important:
If in doubt, please apply a test coating on the original substrate and check whether the result meets your expectations.
For more detailed information, please refer to the latest technical information for the individual products.

The photo shows how components in wood can change the colour tone of a stain. In the right-hand image with an adjusted working method, the colour tone does not change.

Note:
This information is purely advisory and is based on the best knowledge available after careful research in line with current state-of-the-art technology. It is not legally binding. We also refer you to our Terms and Conditions.
The material safety data sheet as per Regulation (EC) No. 1907/2006 is available.