

Hesse HYDRO-PU RESISTCOLOR HDB 5434x(gloss level)-(colour tone)

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

>Product description

Our **Hesse HYDRO-PUR RESISTCOLOR HDB 5434x(gloss level)-(colour tone)** enables you to achieve an **excellent colour lacquer surface** that not only **resists scratches**, but also mechanical and chemical loads. The outstanding flow properties of our two-component HYDRO-PUR RESISTCOLOR make it **easy to apply**. Its **rapid complete drying** and the option for forced drying ensure that even heavy workpieces are ready for stacking or further applications on the next day. **Hesse HYDRO-PUR RESISTCOLOR HDB 5434x(gloss level)-(colour tone)** is a light fast multicoat lacquer that is ideal for base and top coats.

>Areas of application

HYDRO-PUR RESISTCOLOR is particularly suitable for industrial coating in the interior fitting and shopfitting sectors and for objects, including doors and heavily used surfaces in bathrooms and kitchens.

>Surface Preparation

Surface preparation	Clean, dry wood, clean suitable foil substrate or matching pigment filler. Free from oil, grease, wax and silicones. Correctly sanded and free from sanding dust.
Substrate sanding grits from-to	120 - 400
Lacquer sanding (grit) from - to	280 - 600
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	Subsequent coating: after sufficient drying and sanding back, if required, apply another coat of the same product or suitable HYDRO or PU products.
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>Times

Usage time	2 h / 20 °C
Working Temperature Range	18 - 22 °C
conditions of transport	10 - 30 °C
Drying	9 h / 20 °C
Stackable after	16 h / 20 °C
Complete drying	48 h / 20 °C
Drying machine	Circulating-air dryer
Drying temperature	40 °C

>Application

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

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>Processing instructions

Add hardener slowly whilst stirring and adjust the spray viscosity by adding water or HYDRO Optimizer HZ 70, if required. Maximum additive volume 5 %. The hardener must always be added before thinning! The flow time should not be less than 40 s / DIN 4 mm after hardening and thinning. Never store product mixed with hardener in closed containers. 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.

>Technical data

Flow time (+/- 15 %)	35 s / DIN 53211 - 6 mm
Appearance	opaque
Decopaint basis	WB
Decopaint category	J
Density series kg/l	1.041 - 1.219
Yield per coat	8 - 9 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.
Form of delivery	fluid
Non-volatile content series %	34 - 48
VOC EU %	3 %
VOC FR	C
Working Temperature Range	18 - 22 °C
Storage temperature	10 - 30 °C
Shelf life in weeks	52
conditions of transport	10 - 30 °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 ratio (gravimetric)	100 : 9 HYDRO Hardener HDR 5091

>Ordering information

Order number	Colour tone	Gloss level 60° (Gloss)	Gloss level	Container Size
HDB 54344-7035	7035	18 - 23	silk matt	5 l, 25 l
HDB 54345-9010	9010	24 - 29	silk matt	5 l, 15 l, 25 l

>Hardeners

Order number	Product description	Container Size
HDR 5091	HYDRO Hardener	0.5 l, 1 l, 1.5 kg, 2.5 l, 5 l, 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

>Particular instructions

Pre-priming is possible depending on the required finish and carrier material, for instance using: HP 6645-9343, HDP 5640-9343, DP 4755-9343. Pre-prime exotic woods such as Macassar or extremely resinous knotty pine with PU sealing primer DG 4720-0001. **When used on staircases (treads) we recommend finishing the colour lacquer surface with Hesse HYDRO-PUR PRIMO HDE 5400x(gloss level) or other Hesse HYDRO staircase lacquers.**

>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			
Toy safety DIN EN 71-3 (2014-12)	HESSE			
Saliva and sweat resistance according to DIN 53160 Parts 1 and 2: no discolouration (Level 5)	HESSE			
DIN 68861-Part 1B (Furniture surfaces; Behaviour under chemical demands)	HESSE			

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.