

>Product description

Our Hesse HYDRO-UV DIASTAIRS HUE 8640x(gloss level) provides great resistance against chemical and mechanical exposure. According to DIN 68861 the product exhibits the following resistance: abrasion 2C, chemical resistance 1B. DIASTAIRS is a multicoat lacquer that is even suitable for coating furniture and (given its creak-free formulation) also for the industrial coating of staircases.

>Areas of application

Best suited for coating heavily used components and also for staircases.

>Surface Preparation

Surface preparation	The substrate must be dry, dust-free and grease-free.
Substrate sanding grits from-to	120 - 220
Lacquer sanding (grit) from - to	280 - 400
Comments on sanding	Sanded lacquer layers and surfaces must be coated directly.

>Finishing

Finishing	Coat with products from the same series after drying and lacquer sanding.
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>Times

Working Temperature Range	15 - 35 °C
conditions of transport	frost-free - up to a maximum of 35 °C
Stackable after	Directly after UV curing and sufficient cooling.
Curing	Hardening by means of ultraviolet rays with mercury UV-lamps. Sufficient radiation energy must be provided. This depends primarily on the type, conditions, age and design of the lamp system, so that the optimum UV lamp settings can be implemented on the respective system, and the curing should be checked. Your Hesse representative will assist you with the determination of the necessary radiant energy.
Drying machine	Circulating-air dryer
Drying temperature	40 °C
Drying time	30 min
Notes on drying	Forced, cycled or light-incidence protected drying is important with UV-hardening systems in order to prevent reaction losses and premature polymerisation. A combination of several dryers is advantageous. Special IR or microwave driers at the start of the drying system are particularly recommended. The lacquer's drying time is dependent on substrate, layer thickness and the chosen drying parameters. Complete evaporation of water from the paint film must be guaranteed prior to subsequent use of ultraviolet rays. Levels of humidity that are too high, low temperature or inadequate air exchange can significantly prolong drying.

>Application

Application	Nozzle size in mm	Spray pressure in bar	Atomising pressure in bar
Spraying			
Air mix	0,28 - 0,38	80 - 120	1,0 - 2,0
Automatic spray gun			



>Processing instructions

Working viscosity can be adjusted with water or HYDRO Optimizer HZ 70 (maximum 3 % by volume). For strip cleaning, we recommend the HYDRO Cleaner HY 6995 at a mixing ratio of 1 : 10 with water. Remove dried-on lacquer residues with special thinner ZD 82.

>Technical data

Flow time (+/- 15 %)	75 s / DIN 53211 - 4 mm
Appearance	colourless
Density series kg/l	1.064 - 1.075
Yield per coat	8 - 13 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 %	31 - 33
VOC EU %	0 %
VOC FR	C
Working Temperature Range	15 - 35 °C
Storage temperature	10 - 35 °C
Shelf life in weeks	26
conditions of transport	frost-free - up to a maximum of 35 °C
Working temperature	20 °C
Number of coats (max)	3
Amount per layer (minimum)	80 g/m ²
Amount per layer (max)	130 g/m ²
Total application volume	390 g/m ²

>Ordering information

Order number	Gloss level 60° (Gloss)	Gloss level	Container Size
HUE 86401	4 - 7	dull matt	17 kg, 25 kg
HUE 86402	8 - 12	matt	25 kg
HUE 86404	18 - 23	silk matt	25 kg

>Equipment cleaner

Order number	Product description	Container Size
HY 6995	Cleaning agent	5 l, 15 l, 25 l

>Particular instructions

Always seal opened containers light-tight and air-tight to prevent skin forming. Remove dried lacquer residue using a sieve. Products in containers should be sieved before application. **"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 nor a risk to the environment when cured and dried."**

>Sample process

The coating process and the precise treatment parameters are adapted in each case to the respective application and drying conditions and can be found in the customer-specific process descriptions (surface techniques).

>General information

When applying HYDRO materials, parts that come into contact with the material must be made from non-rusting material. The wood moisture content should be between 8 and 12 %. Stir the material well before application. Do not apply or dry HYDRO lacquers at material or room-temperatures below 18 °C. The ideal ambient humidity for application lies between 55 and 65 %. A humidity level that is too low leads to shrink cracks during the lacquering process; humidity that is too high hinders drying. Please freshly sand the lacquered surfaces before coating and apply lacquer to the sanded surfaces as soon as possible to prevent adhesion problems. When applied on laminates, etc., please use a sample coating on the respective substrate to check the adhesion! Final hardness of the coating is achieved after a week if stored at a minimum of 20 °C room temperature. Woods with rich contents, such as teak, may have an adverse effect on adhesion. Water-soluble ingredients in woods such as ash and tannins in woods such as oak may cause colour changes and discolorations in the coating. Always conduct a sample lacquering to evaluate the colour effect, adhesion and drying process under practical conditions.

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.