

## Technical information

### Hesse PURA-ONE HDE 51-x(gloss level)

Mixing ratio (by volume): 10 : 1 HYDRO Hardener HDR 71



#### Product description

PURA-ONE HDE 51-x(gloss level) is characterized by a particularly abrasion-resistant and tough-elastic surface, which also has very good chemical resistance. The transparent 2C HYDRO topcoat is also powerfull filling and light fast. The product's wide range of applications extends from coating wooden stairs to sealing of parquet in ship interiors. The product can be used on bleached wood. For parquet and wooden floors with a tendency to side and block gluing, the combination with the brightening primer HG 21 or with the scorching primer HG 22 is recommended. The lacquer material is certified according to IMO.

#### Areas of application

For parquet flooring, wood and OSB floors that are subjected to high demands. Can also be used on bleached surfaces (that are adequately dry).

#### Area of application

- Crafted parquet flooring
- The fitting out of ship interiors
- Special applications
- Stairs

#### Substrate material

- Dark, fine pored hardwood
- dark deciduous woods with coarse pores
- light deciduous woods with fine pores
- light deciduous woods with coarse pores

#### Surface Preparation

##### Surface preparation




One prerequisite is professionally laid and prepared parquet or a suitable wooden floor!

For parquet and wooden floors, we recommend the elastic dispersion-based joint filler WOOD-FILL HS 11 for filling joints up to < 2 mm wide and for filling smaller defects in the wood.

After drying and sanding the wood in accordance with regulations (ideally with a 120 - 150 grain sanding grid), the surface to be sealed must be free of oil, grease, wax and silicones.

For new installations of parquet and wooden floors with a tendency to side and block gluing, the combination with the brightening primer HG 21 or the scorching primer HG 22 is recommended.

**Detailed information on the application of WOOD-FILL HS and the primers HG 21 and HG 22 can be found in the technical information on the products.**

Substrate sanding grits	 100 - 120
Lacquer sanding grit	 120 - 150
Comments on sanding	 The quality and uniformity of the wood and of the lacquer sanding are crucial to the final surface finish. After sanding, remove dust as prescribed.

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## Application

Application	Spray nozzle size	Spray pressure	Atomizing pressure
Rolling			
Spreading			

## Times

Pot life	 3 h / 20 °C
Usage time	 2 h / 20 °C
Drying	 3 h / 20 °C
Resilient after	 7 d / 20 °C
Accessible after	8 h / 20 °C
Complete drying	 7 d / 20 °C

## Finishing

Finishing	After sufficient drying: initial care using Hesse PROTECT-CLEANER PR 90 or Hesse ANTISLIP-CLEANER PR 93.
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## Processing instructions

The floor must first be sanded back to the bare wood and be dry and free from oil, grease, wax, silicones and sanding dust. For renovation or repairs of previously sealed surfaces: Perform a test coating to determine whether the current substrate can be sealed with PURA-ONE. After suitable drying, test the bonding of the complete coating! Shake the lacquer well! Add the correct hardener to the organic lacquer container and immediately shake well for 1 - 2 min. Do not mix in the application container. The mixing ratio must also be accurately observed in the case of partial amounts, and the mixture well shaken. Press the strainer into the outlet opening, fill the lacquer / hardener mixture into a suitable application container and work from this! Only use a mixture within the given application time. Never store product mixed with hardening agent in closed containers. Do not use any electrical stirring devices; risk of forming foam or bubbles! Clean work equipment with water.. Dried lacquer residue can be removed with Hesse CLEANING-AGENT DV 9.

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#### Particular instructions

To achieve "R10" slip resistance according to DIN 51130 you need to add 10 % of Hesse HZ 75 anti-slip additive to the final sealing coat! Please shake / stir the additive in well! [Critical substrates such as wood block, on-edge lamellar parquet, floor boards, parquet flooring on underfloor heating, etc. require proper pre-treatment with HG 22 to minimise the risk of lateral bonding.] [To avoid the possibility of staining, please only renovate parquet flooring, which was previously treated with solvent-based systems, with solvent-based systems again!] [Clean work equipment with water.] [Dried lacquer residue can be removed with Hesse CLEANING-AGENT DV 9. Films or carpets must not be placed on the parquet flooring until it has completely hardened.] [Shake the lacquer well! Spraying: possible; however the addition of water is required. When the hardening agent is well worked in, adjust the spraying viscosity with up to 5 % water. Personal protective equipment and adherence to the instructions for the spraying application.

[This product must only be combined with other approved and technically suitable products when used as a flame retardant coating material for seagoing vessels according to the latest version of SOLAS 74 Reg. II-2/3, II-2/5, II-2/6 and X/3, as amended, IMO Resolution MSC.36(63)-(1994 HSC-Code) 7, IMO Resolution MSC.97(73)-(2000 HSC-Code) 7, IMO MSC/Circ. 1120. The maximum application amount in wet film when using this product as a flame retardant coating material for seagoing vessels is] 2 x 100 g/m<sup>2</sup>.

**"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."**
















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Flow time (+/- 15%)	 50 s / ISO4
Yield per coat	 9 - 13 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.
Giscode	W3/DD+
Proportion of renewable raw materi-	 0 %
Non-volatile proportion	 35.5 - 38.6 %
VOC EU	7.06 - 7.26 %
VOC FR	 A
conditions of transport	 10 - 30 °C
Shelf life in weeks	 52
Storage temperature	 10 - 30
Working Temperature Range	 18 - 22
Number of coats (max)	 2
Amount per layer (minimum)	 80 g/m <sup>2</sup>
Amount per layer (max)	 100 g/m <sup>2</sup>
Total application volume	 200 g/m <sup>2</sup>
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Mixing information (gravimetric)	 100 : 10 HYDRO Hardener HDR 71





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## Particular properties / testing standards

Sign	Product standard / basis
	Product meets the requirements of solvent based paints and coatings regulation - ChemVOCFarbV (German ordinance on solvent-based paints and
	PVC-resistant
	Quality Assurance System Certificate (Module D); Directive 2014/90/EU (Marine Equipment Directive)
	Green Building - Applicable Standard Specification: 2023 Al Sa'fat – Dubai Green Building System Applicable Specific Rules:

Sign	Product standard / basis
	Slip-resistant according to German Industrial Standard EN 16165:2023-02 (1)
	VOC classification Belgium according to the assessment of the royal decree
	Emission-tested construction product per DIBt [German institute for construction technology] principles,

## Sample process

### Parquet, Oak floor boards

Wood-sanding grain 100 with subsequent dedusting

Sealing: 2 x 100 g/m<sup>2</sup> PURA-ONE using a suitable roller. Intermediate drying at least 2 - 3 h / 20 °C room temperature and sufficient air circulation.

Intermediate sanding with single-disc sanding machine and sanding grid 120 - 150 with subsequent dedusting.

Accessibility after drying for at least 8 h / 20 °C room temperature and sufficient air circulation.

Fully resilient after at least 7 d / 20 °C room temperature and sufficient air circulation.

## Accessories

	Order number	Product description
<b>hardeners</b>	HDR 71	HYDRO Hardener
<b>Retarder</b>	HZ 5-56	HYDRO Retarder
<b>Equipment cleaner</b>	DV 9	CLEANING-AGENT

## General instructions on workmanship

The moisture content should be between 8 - 12 %. Please do not use and dry HYDRO lacquers at material and room temperatures below 18 °C. The ideal humidity for painting is between 55 and 65 %. In order to avoid problems with bonding, please sand the lacquered surfaces before applying fresh lacquer and apply lacquer to the sanded surfaces as soon as possible. Woods with a very high wax content such as teak can have a negative effect on bonding in some circumstances. Water-soluble wood contents such as from ash and tannic acid from woods such as oak can initiate changes in colour tones and discolouration in the lacquer. For this reason we recommend a trial lacquering be undertaken as a matter of principle to assess the colour effect, bonding and drying progression under real conditions! Notes on cleaning and care: Please observe the care instructions in accordance with DIN 18356. Wipe parquet with a slightly damp, not wet, cloth. Please use only neutral, silicone-free, salmiac-free and non-abrasive cleaners. Regular care and cleaning with Hesse PROTECT-CLEANER PR 90 and Hesse INTENSIVE-CLEANER PR 91 increases the life of the sealing.

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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](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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