

Koralan® UL 100

1. Product description

Product type	Natural oil and water-based wood scumble. For the industrial coating of wooden elements in interior areas and outdoors, e.g. terrace woods and garden wood treated in the vacuum pressure impregnation process.
	Meets the requirements according to DIN EN 71-3 ("Safety of toys") as per Directive 2009/48/EC
Properties	<ul style="list-style-type: none">• Weather-resistant• Gives a glazed effect• Good penetration into wood• Good flow properties• Moisture regulating• No blocking• No flaking• With natural oils and waxes
Scope of application	For wooden elements indoors and outdoors. Especially suitable for hardwoods (e.g. terrace woods) and garden wood treated in the vacuum pressure impregnation process. In combination with structural wood protection measures, the treated surface is protected against moisture absorption. Koralan® UL 100 does not contain a biocidal formula against mould and blue stain fungus infestation. For the initial coating of coniferous wood for outdoor use, we recommend a pre-treatment with a protective wood primer (e.g. Koralan Grund®); subsequently, apply two coats of Koralan® UL 100.
Colour shades	UV Natural, Larch, Garapa, Bangkirai other shades on request.
Container sizes	20 l 120 l 1000 l

2. Technical data

Density 20 °C	approx. 1.02 g/cm ³ , depending on the shade
Viscosity 20 °C	approx. 13 sec. (DIN 4 mm cup)
Drying	In standard climate conditions (23 °C at 50% relative humidity in accordance with DIN 50014) and on normal wood species, such as pine and spruce: Dust-dry: after approx. 3 hours Recoatable: after approx. 8 hours
	Ensure good air circulation during the drying process! This applies in particular to structural elements that are dried in enclosed areas after the coating process (workshops and halls). Drying can be significantly improved by using air flow (use of fans). Low temperatures, increased humidity and poor air circulation will slow down drying. When used on certain tropical woods (e.g. Massaranduba, teak) and oak, drying delays of a few days can also occur.

3. Processing

Preparation	Clean the surface of the wood. The surface of the wood must be free of dust and grease. Planed wooden surfaces should be sanded for improved material absorption (grain 80/120). Use a P2 dust filter for grinding work.
Application quantity	Approx. 120–160 ml/m ² (approx. 80–100 ml/m ² on tropical wood) for two coatings. In the case of highly absorbent substrates, take additional consumption into account.
Application methods	Brushing, dipping, spraying, flooding, power painter, VACUMAT®
Application	Check the colour shade before applying to large areas. In order to avoid colour deviations, material with the same production date / batch number only should be applied to an object. We always recommend applying a test coating first.
	Stir Koralan® UL 100 well before use. Use Koralan® UL 100 undiluted.
	Optimum processing temperature +15 °C to +30 °C (applies to substrate, Koralan® UL 100 and ambient temperature). Drying temperature: at least +5 °C. The wood moisture content must not exceed 20%. After use, cover the dipping tank with a floating lid to prevent air pockets from forming. Water losses caused by the flooding system must be compensated accordingly.
	The drying times between the individual applications must be adhered to. An intermediate sanding is recommended. Before starting the application, or after longer breaks, the circulation in the dipping pool must be switched on.

Application	If the wood is pre-treated with a solvent-based wood preservative (e.g. Koranol® Grund - Primer), a drying time of at least 3 days must be taken into account in a standard climate. The intensity of the colours is influenced by the substrate texture, the type of wood and the application process.
	For tropical woods that are very oily or resinous (e.g. Massaranduba), we recommend degreasing the wood before the first treatment with Koralan® UL 100 or exposing it to weather for 6 to 8 weeks. Otherwise, staining or defects may occur in the surface finish.
	When applied outdoors, it is important to protect the freshly coated wood from rain until it has completely dried.

Cleaning the tools

Immediately after use with water and detergent. Dispose of cleaning residues properly and do not store them temporarily at the system (risk of microbial contamination of the working solution).

4. Special instructions

Labelling according to Regulation (EC) No 1272/2008	Supplemental hazard information: EUH208 Contains reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1), 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. EUH210 Safety data sheet available on request.
Instructions for use and warnings	Misuse may cause health problems and lead to environmental damage. Avoid skin and eye contact; wear suitable protective clothing (e.g. protective gloves, goggles). Keep away from food, drinks and animal feed stuffs. In case of accident, if you feel unwell or if you swallow the product, seek medical advice immediately and show the packaging or label.
	After working, wash your face and hands thoroughly with soap and water.
Storage and environmental protection	Store only in original containers! Close the container tightly after use. Do not discharge into surface water or the sewage system. Do not store at temperatures below +5 °C or above +30 °C.
Shelf life	Cool, protected from frost and stored dry in the unopened original container for at least 36 months.
Disposal	The assignment of the waste key number/waste designation must be carried out industry- and process-specific according to the German Regulation for the Introduction of the European Waste Catalogue [EAKV].
Product code	M-KH 01
EWC/ German Waste catalogue regulation [AVV]	08 01 20 – Aqueous suspensions containing paint or varnish, apart from those covered by 08 01 19.
VOC content	The maximum value (VOC content cat. A/e) for this product is, as per Directive 2004/42/EC: 130 g/l. The VOC content of this product in the ready-to-use condition is <130 g/l.

The above details are based on the latest technological developments and application methods and contain general advice. They describe our products, and provide information on the application and processing thereof.

Because application and processing are beyond our control, we are liable only for the consistent quality of our products as per our general terms and conditions. In the event of doubt, please contact our technical advisory team.