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TECHNICAL DATA SHEET

OLI-AQUA TOP 51.20 | 2-component parquet sealant

WATER-BASED 2-COMPONENT PARQUET SEALANT FOR THE MOST DEMANDING APPLICATIONS

OLI-AQUA TOP 51.20 is a water-based 2K PU parquet sealer for parquet and timber floors subject to heavy to extreme wear. This high-performance 2K system combines very high mechanical and chemical resistance with reliable application, excellent flow and a uniform, high-quality finish. Tested in accordance with ÖNORM C 2354, OLI-AQUA TOP achieves the highest wear class, Class C, and is therefore particularly recommended for heavily trafficked areas in commercial and public settings. It is also suitable for high-quality residential areas and appropriately constructed sports parquet floors.

Gloss level	Item	Container / Unit	Pallet
Semi-matt-4	A00706_KF	1 x 5 L paint*	96
Matt-2	A02797_KF	1 x 5 L paint *	96
Extra matt-1	A05331_KF	1 x 5 L paint*	96
Semi-matt-4	A05031_SET	2 x 5 L varnish + 2 x 0.5 L hardener	48
Matt-2	A05033_SET	2 x 5 L varnish + 2 x 0.5 L hardener	48
Extra matt-1	A05331_SET	2 x 5 L varnish + 2 x 0.5 L hardener	48

* For individual containers, the appropriate OLI-AQUA hardener 13.2 must be ordered separately.

Area of application	For parquet and timber floors subject to high to very high demands in terms of wear and chemical resistance. Particularly suitable for high-traffic areas in hotels, the catering industry, retail, offices and administrative areas, schools, public institutions and event venues, as well as for the on-site renovation of permanently installed timber staircases. Also suitable for high-quality residential areas and sports parquet within the framework of tested system configurations.
Properties	▪ Water-based 2-component PU parquet sealer for the most demanding conditions ▪ Very high resistance to abrasion, scratches and chemicals ▪ Excellent flow and a uniform surface finish ▪ Fast drying and short return-to-use time ▪ Available in extra-matt, matt and semi-matt finishes ▪ Suitable for certified sports flooring systems
Complies with/Tested in accordance with	The following information relates to the respective tested or approved system configurations. The valid test reports and approvals are authoritative. ÖNORM C 2354 – highest wear class C Tested in service class C for scratch resistance, chemical resistance, adhesion and deformability. EN 14904 – Sports flooring Slip resistance tested for sports flooring; the requirements of EN 14904 are met in the tested system configuration. DIBt / AgBB – Emissions Emissions-tested construction product in accordance with DIBt principles. The requirements for emissions of volatile organic compounds in accordance with the AgBB assessment scheme are met in the approved system configuration.

EN 13501-1 – Fire performance

Fire performance depends on the specific flooring and system configuration. The relevant test reports and approval certificates are decisive.

GISCODE / VOC

GISCODE W2/DD+. Complies with EU Decopaint in accordance with product-specific classification.

Sealing system**System with primer**

1 × OLI-AQUA PRIME 15.81

2 × OLI-AQUA TOP 51.20

System without primer

3 × OLI-AQUA TOP 51.20

Both systems are possible. The choice depends on the substrate, the parquet construction and the preferred working method. OLI-AQUA PRIME 15.81 reduces the edge bonding of water-based coatings and can therefore minimise the risk of irregular joint formation resulting from dimensional changes in the wood. The use of OLI-AQUA PRIME 15.81 is therefore particularly recommended for critical parquet constructions and for parquet laid over underfloor heating.

Furthermore, the primer improves application reliability and reduces the risk of visible brush marks.

System for coloured surfaces

1 × OLI-NATURA HS Professional Oil, preferably applied as a two-component system

2 × OLI-AQUA TOP 51.20

Work in the HS Profiöl sparingly and evenly, then polish dry thoroughly with a white pad or a cotton cloth placed underneath. Any excess oil must be removed completely, as it can impair the adhesion of the subsequent sealant. Allow to dry for at least 24 hours before applying the OLI-AQUA TOP topcoat; sanding is not required. Cover coloured finishes after 7 days at the earliest.

Substrate preparation

The substrate must be dry, sound, properly sanded and free from old coatings, oil, grease, wax, silicone, residues of care products, sanding dust and other contaminants that may impair adhesion.

Graded sanding 80/100/120, final sanding with 120-grit paper

The finer the sanding, the less the wood will be roughened.

When renovating, existing coatings and care product residues must be completely removed.

A test area must be prepared on woods with high-content or unknown compositions, as well as on critical substrates.

For dimensionally critical constructions, e.g. floorboards, edge-grained slats, renovation floors or parquet laid over underfloor heating, the system build-up with OLI-AQUA PRIME 15.81 is recommended

Application

Stir or shake the base varnish thoroughly before use.

Mix both components – parquet varnish and hardener 13.2 – thoroughly in a ratio of 10 parts varnish to 1 part hardener shortly before use. Leave to stand for 10 minutes before further processing.

Only prepare partial batches whilst strictly adhering to the specified mixing ratio. Apply the mixed material within the pot life of approx. 3 hours. The end of the pot life is not necessarily indicated by a change in viscosity. Do not extend the pot life of already mixed material by adding water, fresh base varnish or hardener.

Apply OLI-AQUA TOP 51.20 evenly using the OLI water-based paint roller. Work wet-on-wet and avoid brush marks and build-up of material. Do not pour the material directly onto the floor; instead, apply it from a clean application tray. For larger areas, plan the work sequence, quantity of material and staffing levels so as to ensure rapid and continuous application.

Allow sufficient drying time between coats and ensure good air circulation; avoid draughts and direct sunlight.

Do not apply more than two full-surface primer or coats of varnish per day to prevent excessive moisture build-up and swelling of the wood. Light sanding between coats before the final application improves the surface finish and is particularly recommended where high aesthetic standards are required. Remove all sanding dust thoroughly afterwards.

Care & Cleaning

Handle the surface with care during the initial curing phase. For standard installation, damp cleaning and initial maintenance should not be carried out until at least 7 days have elapsed. For ongoing cleaning and maintenance, follow the current OLI care instructions for sealed timber floors in accordance with DIN 18356.

Notes

- Low temperatures, high humidity, high application rates and poor ventilation prolong the drying time.
 - The application temperature should, where possible, correspond to the subsequent average ambient conditions.
 - Safety data sheet and labelling of components
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Disposal

Dispose of product residues and containers in accordance with local regulations. Do not allow the product to enter the sewerage system, watercourses or the ground. The base coat and hardener must be handled in accordance with their respective classifications and the information in the safety data sheet prior to mixing. Use suitable personal protective equipment during application and ensure adequate ventilation. For information on protective measures, storage, transport and disposal, refer to the current safety data sheets for the components.

Technical data

Technical parameter	Specification
Product type	Water-based 2-component PU parquet sealant
Binder base	High-quality PU dispersion
Mixing ratio	10 : 1 (base coat : hardener)
Solids content	35 ± 2 %*
Gloss level Extra matt	approx. 10 ± 3 GU*
Gloss level: Matt	approx. 20 ± 3 GU*
Gloss level: semi-matt	approx. 40 ± 5 GU*
Gloss measurement	60° on glass
Application temperature	Room, floor and material ideally +15 to +25.
Relative humidity	40–75 %
Wood moisture content	max. 12%
Final sanding of raw timber	P100, preferably P120
Application tool	OLI water-based paint roller, microfibre, 11 mm pile height
Coverage/application rate	approx. 8–10 m ² /l per coat; 1st coat approx. 100 g/m ² , subsequent coats approx. 120 g/m ²
Pot life	approx. 3 hours
Recoatable/Intermediate sanding	After approx. 2–3 hours at +20 °C / 50 % r. F., can be recoated within 24 hours without intermediate sanding. If more than 24 hours have elapsed, intermediate sanding with P120–150 is required to ensure intercoat adhesion.
Walkability/Load-bearing capacity	Can be walked on carefully after approx. 5–6 hours; limited load-bearing capacity after 12 hours and full load-bearing capacity after approx. 8–10 days
Initial care/covering	Not before the coating has fully cured, approx. 7 days
Tool cleaning	Immediately after use with water
Storage	Cool, dry and frost-free; +5 to +30 °C
Shelf life	Coating: 12 months; Hardener: 12 months in the unopened original container

Our application recommendations, whether verbal or in writing, are provided for guidance only and are not binding. They are based on our experience and the current state of knowledge gained from practical application. They do not relieve the applicator of the responsibility to test our products themselves, at their own risk, to ensure they are suitable for the intended purpose. All previous editions are hereby superseded. Date: 06.10.26_GS