

**SCAN QR CODE**

for data sheets, safety information –
available in multiple languages



TECHNICAL DATA SHEET

OLI-AQUA NORDIC 18.40 |

1K+2K natural wood effect varnish

Water-based 1K/2K natural wood effect varnish in ultra-matt finish for light-coloured wooden furniture and staircases in interior applications.

Gloss level	Range					
	Quantity per pack	1 x 1 L	6 x 1 L	1 x 5 L	2 x 5 L	1 x 10 L
18.40-0 ultra-matt	A04643					X
Area of application	• Wood and wood-based materials indoors ■ Domestic & commercial ■ Primarily light-coloured wood species ■ High-quality furniture • Interior woodwork: interior doors, panelling • Stairs • Shopfitting & exhibition stand construction					
Properties	• Primer and topcoat • Natural wood effect: subtle colour enhancement, matt finish • Ultra-matt: gloss level < 5 gloss units at 60° (internal measurement) • Fast drying • Application by brushing, rolling or spraying • Can be applied with hardener 13.2 if required					
Tests / Certifications	• Complies with EU Decopaint • Fire behaviour: Class C-s2,d0 in accordance with DIN EN 13501-1 • Slip resistance: Class R10 in accordance with EN 16165 for 1K and 2K coatings • DIN EN 71-3: Migration limits tested and met • DIN 53160, Parts 1 and 2: Saliva and sweat resistant, Grade 5 • Chemical resistance: DIN 68861-1, 1C; 1B for selected test media					
Composition	Aqueous binder system with polyurethane dispersion.					
Wood preparation	The surface must be dry, clean and free from oil, wax, grease and silicone. Sand the wood with P150-180 and remove the sanding dust thoroughly. For woods rich in resin and other constituents, such as pine, the addition of OLI-AQUA Hardener 13.2 is recommended. Check compatibility, adhesion and colour tone by carrying out a test application on the actual timber, particularly on dark or dark-stained surfaces.					
Application conditions	Optimal application conditions: +20 °C and 50 per cent relative humidity. Do not apply at temperatures below +15 °C.					

Material preparation

Stir the material thoroughly.

2-component application: Mix 10 parts of varnish with 1 part OLI-AQUA Hardener 13.2 by volume. This corresponds to a hardener addition of 10 per cent. Add the hardener whilst stirring and homogenise the mixture. Leave to stand for 10 minutes before application.

Pot life: 3 hours. The end of the pot life cannot be recognised by a change in viscosity. Do not return any mixed material residues to the original container.

Hardener/Thinner

Hardener (optional)	10% OLI-AQUA Hardener 13.2 (by volume; varnish : hardener = 10:1)
Thinner	Tap water
Pot life for 2-component applications (20 °C, 65% relative humidity)	3 hours

Thinning

1K spray application: Adjust to the required application viscosity using 5–10 per cent tap water.

2-component application with a cup gun: The hardener significantly reduces the viscosity. If necessary, dilute with a maximum of 5 per cent tap water.

Application

	Spray cup	Airless/ Airmix	Brushing
Spray pressure (bar)	2.0 – 3.5	90 – 120	–
Nozzle size (mm)	1.8 – 2.0	0.25 – 0.33	–
Compressed air for Airmix (bar)	–	2 – 3	–
Thinner addition (%)	1K: 5–10% 2K: max. 5%	0 – 5 %	–
Application viscosity DIN 4 mm (sec.)	100–120	100–120	110–130
Application rate per coat (g/m ²)	100 – 120	100–120	80–100
Coverage per application (m ² /L)	8–10	8–10	10–12

Application instructions

For airless/Airmix sprayers, use a split or insert filter with a filter fineness of at least 100 µm. All components in contact with the material must be made of stainless steel.

The milky haze in the wet film disappears once the coating is completely dry.

Recommended application method**Spray application**

Apply the paint or paint-hardener mixture at a rate of approx. 100 g/m². After 1.5 hours of drying, sand with P240 and remove dust. Apply a second coat at a rate of approx. 100 g/m².

Brush application

Apply the varnish evenly and generously with a brush or flat brush in the direction of the grain. Allow to dry for at least 1.5 hours. Then sand by hand in the direction of the grain using P220–280 and remove all dust thoroughly. Apply a second coat evenly and generously at 80–100 g/m² in the direction of the grain.

Drying

Dust-dry: after approx. 45 minutes

Can be recoated / sanded: after approx. 1.5 hours

Can be stacked: after approx. 16 hours

Drying times depend on temperature, humidity, air circulation and the amount applied. Low temperatures, poor air circulation and high humidity will delay drying.

Tools / Cleaning

Clean tools with tap water immediately after use.

Storage / Shelf life

In the unopened original container, the product has a shelf life of at least 24 months when stored in a cool, dry place protected from frost. Store and transport at temperatures between +5 °C and +30 °C. Seal opened containers tightly after use to prevent a skin from forming.

Safety

Further information on safety, storage, transport and disposal can be found in the current safety data sheet at www.oli-lacke.de. For two-component (2K) applications, also refer to the safety data sheet for the hardener.

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 practical knowledge. 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: 10 October 2026