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TECHNICAL DATA SHEET

OLI-AQUA NORDIC 18.40 | 1K+2K raw wood effect lacquer

Water-based 1K + 2K raw wood effect lacquer with a bio-acrylate base in ultra-matt for light-coloured wooden furniture and stairs in interior areas.

Gloss level	Range					
	No. per pallet					
	No. per PU	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	☒	☒	☒	☒	☒

Area of application	<ul style="list-style-type: none"> Wood and wood-based materials indoors Private & commercial Primarily light wood types High-quality furniture Wood interior fittings: room doors, panels Stairs Shop & exhibition stand construction
Properties	<ul style="list-style-type: none"> Environmentally friendly – solid-content water-based paint with a bio-acrylate base Raw wood effect varnish – dries to a raw wood look & dull matt finish Ultra-matt finish – gloss level below 5% gloss Anti-fingerprint Easy to use – easy to brush, roll and spray Flame retardant – complies with fire protection class DIN EN 13501-1 Optional hardener 13.2 available
Complies with/tested according to	<ul style="list-style-type: none"> EU Decopaint compliant Flame retardant according to DIN EN 13501-1 Slip resistance tested according to EN 16165:2021-10, Annex B / DGUV Rule 108-003 – Class R10 DIN 71-3 (safety of children's toys) DIN 53160 (saliva and sweat resistant) DIN 68861 T1 C (chemical resistance) DIN 68861 T1 B (selected media) Free from formaldehyde and aromatic compounds Free from NMP and NEP

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Composition	Bio-acrylate dispersion with a minimum content of 30% based on renewable, plant-based materials														
Shelf life	12 months in the original sealed container. Storage and transport not above +30°C / below +5°C.														
Notes	<p>Optimal processing conditions are +20°C and 50% relative humidity. Do not process below +15°C.</p> <p>Stir the contents of the container well before removing the material! After removing the material, always close the container tightly to protect the contents from drying out (skin formation).</p> <p>As a 2-component variant, mix intensively in a mixing ratio of 10:1 with OLI-AQUA Hardener 13.2 shortly before use.</p> <p>The hardener significantly reduces viscosity to spray level. When processing with a cup gun, up to 5% tap water can be added. Allow to stand for 10 minutes before further processing. The pot life is 3 hours.</p> <p>The end of the pot life cannot be determined by a change in viscosity. Do not pour back excess material.</p> <p>When using as a 1K spray paint, adjust to processing viscosity with 5% to max. 10% tap water.</p> <p>IMPORTANT: For airless/air mix spray guns, do not use gap or insert filters finer than 100 µm.</p> <p>During processing, a milky haze forms in the wet phase, which disappears after complete drying.</p> <p>All material-carrying fittings must be made of stainless steel. Clean the spray gun with water immediately after use.</p> <p>A test coat should be applied to dark and dark-stained wood surfaces.</p>														
Wood preparation	<p>Sand the wood in stages with 150/180 grit sandpaper. The finer the sanding, the less the wood will roughen.</p> <p>The surface must be dry, thoroughly cleaned and free of oil, wax, grease, silicone and sanding dust.</p> <p>When painting resinous and rich woods such as pine, we recommend adding hardener.</p>														
Hardener/thinner	<table><tr><td>Hardener optional</td><td colspan="3">10% OLI-AQUA hardener 13.2</td></tr><tr><td>Thinner</td><td colspan="3">Tap water</td></tr><tr><td>Processing time 20 °C, 65% relative humidity</td><td colspan="3">3 hours</td></tr></table>			Hardener optional	10% OLI-AQUA hardener 13.2			Thinner	Tap water			Processing time 20 °C, 65% relative humidity	3 hours		
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Application															
	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	-												
Thinner addition (%)	5 – 10	0 – 5	-												

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	Processing viscosity DIN 4 mm (sec.)	10	10
	Application quantity per work step (g/m ²)	100	100
	Yield per work step (m ² /L)	8	8
110 - 130			
80			
10			
Drying	Dust dry: 45 min. Sandable: 90 min. Stackable: 16 hours Drying depends greatly on humidity/temperature and application quantity.		
Recommended build-up	<p>Spray application: Prime with approx. 100 g/m² of paint or paint/hardener mixture After 2 hours of drying, sand with 240 grit. Final coating with approx. 100 g/m²</p> <p>Brush application: First coat of paint: Apply the paint evenly and generously with a brush or flat brush in the direction of the grain. Intermediate drying: Allow the surface to dry for at least 90 minutes. Intermediate sanding by hand: Now sand the dried coat of paint in the direction of the grain using 220-280 grit sandpaper. Remove all dust from the surface. Second coat of varnish: Then apply the second coat of varnish evenly and generously with a brush or flat brush in the direction of the grain using 80-100 g/m².</p>		
Clean tools	Rinse tools with tap water immediately after use. Dispose of cleaning residues properly.		
Safety	No labelling required, not a hazardous material. Further safety information can be found in the safety data sheet at www.oli-lacke.de .		

Our written and verbal recommendations for use are only non-binding advice. They are based on our experience and current knowledge gained from practical use. They do not release the user from their responsibility to test our products themselves for their suitability for the intended use. All previous editions are hereby invalidated. Stand: 21.12.2022_GS-UPD_15082025_sst