

Technical Data Sheet

KALDET Transparent Wood Stain No. 270



Application range	For interior solid wood, veneers, and Multiplex boards, also for cabinet interiors, garden furniture. Not suitable for walking areas.																								
Technical qualities	Complies with German Industrial Norm (DIN) 53 160, fast to perspiration and saliva. Suitable for toys according to DIN EN 71, part 3. Does not contain protection against blue-staining fungi. KALDET – Transparent Wood Stain No. 270 was rated as very good in the magazine "Öko-Test: Guide for Construction, Habitation, Renovation" edition 5 / 2003.																								
Full declaration	Linseed oil - stand oil - natural resin ester, linseed oil, titan dioxide, mineral pigments, chalk, linseed oil - stand oil, castor oil – stand oil, dehydrated castor oil, soya lecithin, linseed oil – wood oil – stand oil, silicic acid, micronized wax, orange oil, pine oil, Isoaliphates, alumina, dehydrated amino sugar, and drying agents free of lead (Co, Mn, Zr, Ca). Without orange oil: 002 clear, 012 spruce, 022 boxwood, 032 pine, 052 brazil, 056 sea buckthorn, 076 oak, 113 green, 116 lime, 122 ultramarine blue, 124 country blue, 126 corn flowers, 134 lilac, 202 white, 203 light, 416 blood orange.																								
Colors	<table><tr><td>056 sea buckthorn</td><td>116 lime</td><td>203 light</td><td>012 spruce</td></tr><tr><td>062 walnut</td><td>122 ultramarine blue</td><td>212 light grey</td><td>022 boxwood</td></tr><tr><td>076 oak</td><td>124 country blue</td><td>413 citron</td><td>032 pine</td></tr><tr><td>082 rosewood</td><td>126 corn flowers</td><td>414 tangerine</td><td>042 dark teak</td></tr><tr><td>102 ebony</td><td>134 lilac</td><td>415 orange</td><td>052 brazil</td></tr><tr><td>113 green</td><td>202 white</td><td>416 blood orange</td><td>417 kiwi</td></tr></table> <p>418 avocado</p> <p>For color 002 (clear), there is a separate technical data sheet. All colors are inter-mixable. All colors without orange oil comply with the criteria of LIVOS Neutral products for the allergy-prone and chemically sensitive.</p>	056 sea buckthorn	116 lime	203 light	012 spruce	062 walnut	122 ultramarine blue	212 light grey	022 boxwood	076 oak	124 country blue	413 citron	032 pine	082 rosewood	126 corn flowers	414 tangerine	042 dark teak	102 ebony	134 lilac	415 orange	052 brazil	113 green	202 white	416 blood orange	417 kiwi
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Dilution	With SVALOS Spray Thinner No. 293 or SVALOS Thinner No. 222																								
Application method	By painting (undiluted), spraying (5 to 10% dilution) or dipping (up to 20% dilution) at temperatures above 12 °C (54 °F) and in dry weather conditions. At higher temperatures, please consider shorter drying times and re-brush sooner.																								
Coverage	1 undiluted liter (1.06 quart) is sufficient for approximately 15 to 30 m ² (161 to 323 ft ²), i.e. 44ml/m ² . Could be considerably less, depending on the surface condition and the absorbency of the wood. Test coat recommended!																								
Drying time	At 23 °C (73°F) and 50 % relative humidity 12 –24 hours. Subsequent coats can be applied after approximately 24 hours. Provide good light and ventilation conditions during drying times.																								
Cleaning	Clean equipment immediately after use with SVALOS Thinner No. 222, or LEVO Brush Cleaner No. 997.																								
Specific gravity	Approximately 0.90 g/ml, depending on the color.																								
Safety advice	<p>Ensure good ventilation during and after application. Always be sure to store and then dispose of cleaning cloths, polishing pads, sponges, etc. that are still wet or even slightly moist with KUNOS Transparent Wood Stain No. 270 in an airtight metal container or in water, as there is a danger of spontaneous combustion caused by the plant oil content. The liquid or applied product is not self-ignitable.</p> <p>P102 Keep out of reach of children. P301+P310 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor. EUH066 Repeated exposure may cause skin dryness or cracking. EUH208 Contains limonene (orange oil), Cobalt (2+) salts. Can cause allergic reactions. Hotline for allergy sufferers: +49 (0)5825 / 8871.</p>																								
Disposal	According to locally regulated laws.																								
Container sizes	0.375 l; 0.75 l; 2.5 l; 10 l; 30 l.																								
Storage	Cool and dry. Shelf life: unopened at least 4 years. Opened products react with oxygen, over time skin formation and rancid smell can occur. Residues should be transferred into smaller containers. See reverse for application instructions.																								

How to use

KALDET Transparent Wood Stain No. 270

Preparation	Surface must be dry (wood moisture content below 15%), solid, finely sanded (180 grain), absorbent, clean and free of resin and dust. The moisture content of coniferous wood and tropical deciduous wood should not be higher than 15%; for European deciduous wood the moisture content should not exceed 12%.
Interior wood:	Prime with DUBNO Penetrating Priming Oil No. 261, remove any excess oil after 20 minutes. After drying intermediate sanding. Afterwards, depending on the area of application and the degree of protection needed, 1 to 3 applications. Re-brush the surface 5 to 15 minutes after each application. Please, pay attention to the drying times!
Cabinet interiors Multiplex, veneer, glued wood (interior)	Follow the preparation instructions: see above. Do not prime! Depending on use of the surface 1 – 2 sparing coats with KALDET Transparent Wood Stain No. 270.
Boxes for bees	Prime with DUBNO Penetrating Priming Oil No. 262 (without orange oil) and apply three times KALDET Transparent Wood Stain No. 270 without orange oil (002 clear, 012 spruce, 022 boxwood, 032 pine, 052 brazil, 056 sea buckthorn, 076 oak, 113 green, 116 lime, 122 ultramarine blue, 124 country blue, 126 corn flowers, 134 lilac, 202 white, 203 light, 416 blood orange).
Important tips	<p>Always do a test application first. Stir thoroughly before use.</p> <p>When purchasing several container of colored wood stain, pay attention to the same batch number.</p> <p>Remove possible skin formed on surface. Provide good ventilation during application and drying times.</p> <p>Seams of new windows should be treated with a single, very thin coat of KALDET No. 270 after priming. Silicone sealant should be applied only after complete drying, and should not be painted over with KALDET No. 270. Linseed oil based putty can be painted over after one day.</p> <p>The use of wax over a colored stain can cause the color to lighten slightly.</p> <p>The colors white and light grey can yellow (yellowing due to the linseed oil) in low light conditions (little daylight). The colors white and light grey should not be painted over with KALDET Transparent Wood Stain “clear” or any other LIVOS oil, as the surface may yellow. Some mixed colors with ultramarine blue and country blue tend to “wash-out” the pigments, which can be eliminated by constant stirring. 10 minutes after application, i.e. re-brush after briefly drying.</p> <p>Colors green (No. 113), ultramarine blue (No. 122) and country blue (No. 124) are getting brownish by reworking with colorless oil.</p> <p>Use color light (203) only as a primer to avoid strong accentuation of the wood grain.</p> <p>If the stain drips off or bubbles appear during application, an incompatibility exists through the pre-treatment or it has been sanded to smooth. Coarser sanding may possibly create remedy.</p> <p>Exterior wood:</p> <p>KALDET Transparent Wood Stain No. 270 is a thin-layer stain. All colors except clear (002), spruce (012), white (202) as well as light (203) are suitable for exterior usage; however, a lower UV resistance compared with KALDET All Weather Stain No. 281 should be noted.</p> <p>For priming please note ADAO External Primer No. 259 for wood prone to blue-staining fungi, LINUS Penetrating Oak Priming Oil No. 233 for oak and DUBNO Penetrating Priming Oil No. 261 for tropical wood.</p>

These directions are the result of long years of research and practical testing. They are backed by our most current expert information. New findings may invalidate this information. The latest version is available on our website at www.livos.de. This data sheet is meant to serve as information and instruction. No legal liability should be interpreted from it. In case of doubt, please contact the retailer, wholesaler, or manufacturer.

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