

## Technical Data Sheet

# KALDET All Weather Stain No. 281

|                            |   |                                       |  |  |
|----------------------------|---|---------------------------------------|--|--|
| <b>Application range</b>   | For the treatment of all exterior solid timber. In the interior only for windows. Not suitable for balcony floors or other walking areas.   |                                       |  |  |
| <b>Technical qualities</b> | Reinforces and deepens the natural color of the wood grain. After 3 coats water-repellent, weather resistant, and permeable to water vapor. Complies with the German Industrial Norm DIN 53 160, fast to perspiration and saliva. The product does not contain protection against blue-staining fungi. Free from organic chemical compounds according to DIN EN 71 part 9.  |                                       |  |  |
| <b>Full declaration</b>    | Depending on the color: Isoaliphates, linseed oil - stand oil - natural resin ester, wood oil, oil, wood oil - stand oil, linseed oil - wood oil - stand oil, mineral pigments, titanium dioxide (only in shade 124, 212), micronized wax, silicic acid and drying agents free of lead (Ca, Mn, Zr).  |                                       |  |  |
| <b>Colors</b>              | 022 boxtree<br>032 pine<br>042 dark teak<br>052 brazil<br>All colors are intermixable.  | 054 mahogany<br>062 walnut<br>076 oak | 082 rosewood<br>102 ebony<br>113 green | 122 ultramarine blue<br>124 country blue<br>212 light grey |
| <b>Dilution</b>            | With SVALOS Thinner No. 222 or No. 292 (without orange oil)..   |                                       |  |  |
| <b>Application method</b>  | Three applications by painting (undiluted), spraying (up to 10% dilution) or dipping (up to 20 % dilution) at temperatures above 12°C (54°F) and dry weather conditions.  |                                       |  |  |
| <b>Coverage</b>            | 1 liter (1.06 quart) is sufficient for approximately 15 to 30 m <sup>2</sup> (161 to 323 ft <sup>2</sup> ) per coat, i.e. 44ml/m <sup>2</sup> . Coverage could be considerably less ml/m <sup>2</sup> , depending on the condition and the absorbency of the wood. Test application!  |                                       |  |  |
| <b>Drying time</b>         | At 23°C (73°F) and 50 % relative humidity 12 to 24 hours. Subsequent coats can be applied after approximately 24 hours. Avoid drying delays by providing sufficient light and ventilation during drying times. At higher temperatures, consider shorter drying times, at lower temperatures and higher humidity, please consider longer drying times as given above.  |                                       |  |  |
| <b>Cleaning</b>            | Clean equipment immediately after use with SVALOS Thinner No. 222 or LEVO Brush Cleaner No. 997.  |                                       |  |  |
| <b>Specific gravity</b>    | Approximately 0.90 g/ml, depending on the color.  |                                       |  |  |
| <b>Safety advice</b>       | <p>Ensure good ventilation during and after application. Always make sure to store cleaning cloths, polishing pads, sponges, etc. which are still wet or even slightly moist with KALDET All Weather Stain No. 281, in an airtight metal container or in water until their disposal, otherwise 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.<br/>P301+P310              IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a doctor.</p> |                                       |  |  |
| <b>Disposal</b>            | According to local official regulations.  |                                       |  |  |
| <b>Container sizes</b>     | 0.05 l; 0.375 l; 0.75 l; 2.5 l; 10 l; 30 l.   |                                       |  |  |
| <b>Storage</b>             | 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.  |                                       |  |  |

## How to use

# KALDET All Weather Stain No. 281

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| <b>Preparation</b>                         | Surface must be dry (wood moisture content below 15%), solid, finely sanded (180 grain), absorbent, and free of resin and dust. For windows and other dimensionally stable wood, the moisture content for coniferous wood and tropical deciduous wood should be below 15% and not exceed 12% in indigenous deciduous wood. Prime with ADAO External Primer No. 259 (for wood at risk of blue stain fungus, e.g. pine, spruce), LINUS Penetrating Oak Priming Oil No. 233 or DUBNO Priming Oil No. 261 (for all other wood types), one sated or sparing coat depending on the absorbency of the wood. Remove excess oil after 20 minutes.   |
| <b>Application</b>                         | <p>In case of already opened containers, remove skin that might have formed on the surface and stir thoroughly! Always do a test application first!</p> <p>Apply three thin coats of KALDET All Weather Stain No. 281 within four weeks. The second coat should already show a visible protective layer on the wood.</p> <p>Please note that the formation of running drips on the surface indicates that the application is too thick; these spots should be distributed immediately and if it is too much the excess oil must be removed. After 10 – 30 minutes the coat must be smoothed out with a brush in the direction of the wood grain. On garden furniture, apply 2 sparing coats.</p>   |
| <b>Renovation of open-pored surfaces</b>   | <p>Old paint coatings must be cleaned and sanded.</p> <p>Subsequent treatment has to be done like the initial treatment. Timely renovation requires only an intermediary and/or final coat. Otherwise a complete new start is necessary.</p> <p>Depending on the weather conditions, type of wood, and color chosen, the maximum time for renovation will vary. Wood that comes in contact with water should be treated regularly.</p>   |
| <b>Renovation of closed-pored surfaces</b> | Pore-clogging coatings (oil-based paints, thick-layered coatings, wax coats) must be sanded or stripped until there is no old residue. Follow the instructions for initial treatment and observe the potentially reduced absorbency.   |
| <b>Care</b>                                | Possible fungal infestations on the surface should be removed. Their appearance depends on the surface roughness, direction, weather side, moisture content, natural cover etc. Clean with GLOUROS Natural Siding and Masonry Cleaner No. 1806 and treat afterwards with KALDET After Care No. 276.  |
| <b>Important tips</b>                      | <p>When purchasing more than one container of paint, be sure that all containers have the same batch number.</p> <p><b>Windows and doors</b> should have the same layer thickness inside and outside with the same product to ensure an optimal moisture transport.</p> <p><b>Glass rabbet<sup>1</sup> / window rabbet<sup>2</sup></b> of new wooden windows: prime once with ADAO External Primer No. 259 (for wood at risk of blue stain fungus, e.g. pine, spruce), LINUS Penetrating Oak Priming Oil No. 233 or DUBNO Priming Oil No. 261 (for all other wood types).</p> <p>Installation of window panes with silicone only after complete drying of the primer.</p> <p>Then apply 3 thin coats of KALDET No. 281 for weather resistance.</p> <p>Silicone generally cannot be painted over with LIVOS products.</p> <p>Linseed oil based putty can be painted over after 1 day of drying.</p> <p>If blue colors like ultramarine blue or country blue are mixed with light grey, ebony, the paint tend to separate the pigments (pigment flooding).</p> <p>The separation of the pigments can be minimized by constant stirring during application. Furthermore, 10 minutes after each application you should repaint (without stain) the surface in the direction of the wood fibers.</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> |

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](http://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 LIVOS customer service (see p. 1).

June 2023

<sup>1</sup> Glass rabbet: recess in the window frame to accommodate a glazing unit.

<sup>2</sup> Window rabbet: is also called "stop rabbet", because it is used to stop the window sashes against the fixed frame.