



TECHNICAL DATA SHEET

KEIM LIGNOSIL[®]-VERANO

1. PRODUCT DESCRIPTION

KEIM Lignosil-Verano is a sol-silicate-based greying glaze for exterior wood components with limited dimensional stability and non-dimensionally stable components. The surface treatment KEIM Lignosil-Verano simulates a grey patinated surface, as it develops on natural wood after several years of weathering. KEIM Lignosil-Verano is subject to natural ageing and thus compensates for the visual differences that can arise from uneven weathering of exposed and protected areas on untreated wood. Please note: KEIM Lignosil-Verano is a surface treatment and does not constitute wood protection in accordance with DIN 68800 or a coating in accordance with DIN EN 927. KEIM Lignosil-Verano is awarded with Cradle to Cradle Certified[®] Silver and C2C Certified Material Health Certificate[™] Gold.

2. FIELD OF APPLICATION

Silicate greying glaze in the KEIM Lignosil system for designing non-dimensionally stable and limited dimensionally stable wooden components in outdoor areas, with finely sawn, rough-sawn or micro-grooved/fine-textured surfaces. Can be used indoors. Note: KEIM Lignosil-Verano does not provide water protection in accordance with DIN EN 927-2

3. PRODUCT PROPERTIES

- Cradle to Cradle Certified[®]-Certificate Silver
- C2C Certified Material Health Certificate[™] Gold
- matt, natural appearance
- non-film forming
- no blocking
- good adhesion
- simulates a natural, greyed, patinated wood surface
- Blue Angel DE-UZ 12a
- permeable
- especially economical
- fast-drying
- ready to use
- absolutely lightfast
- absolutely UV-resistant
- without addition of film protection agents

MATERIAL CHARACTERISTICS:

- Density Approx. 1.1 g/cm³ - 1.3 g/cm³
- pH value approx. 11

CLASSIFICATION:

- Diffusion-equivalent air layer thickness (sd value) < 0,01 m
- Standard Diffusion equivalent air layer thickness DIN EN ISO 12572 wet-cup

COLOUR SHADES:

Classic and metallic colour shades available. Please, refer to KEIM Lignosil-Verano colour chart. Notes: The colour effect of KEIM Lignosil-Verano depends on the type of wood, the nature of the substrate and the method of application, and can only

be determined by creating sample areas. When using water-based products on wood, discolouration may occur due to wood constituents. This discolouration does not constitute a defect and is usually bleached naturally by sunlight.

To achieve the most uniform surface possible, two coats are recommended.

COMPOSITION

Sol-silicate mixture (aqueous solution), polymer, titanium dioxide, inorganic colour pigments (depending on colour), mineral fillers, water, water repellent agents, thickening agents, defoamers, wetting agents

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The substrate must be sound, dry (wood moisture content below 18% according to technical information No. 18 by BFS), clean, free of dust, loose parts, oil and any other substances with separative properties. Planed larch wood must be sanded before priming. Smoothly planed wood can only be used for small areas such as supports/reveal boards or indirectly weathered wood such as roof soffits and must be roughly sanded (60–80 grit) before treatment with KEIM Lignosil-Verano.

Non-suitable substrates:

mechanically stressed surfaces; horizontal/inclined weathered surfaces such as: terrace and balcony floor, handrail stairs/balcony; smoothly planed wooden surfaces

APPLICATION CONDITIONS:

Ambient and substrate temperature ≥ 5 °C during application and drying. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

MATERIAL PREPARATION:

CONSUMPTION:

approx. 0,20 L/m² for two coatings.

These material consumption values are guide values for smooth substrates. Exact consumption values must be determined by means of test areas.

PROCESSING:

Treatment with KEIM Lignosil-Verano can be carried out once or twice, depending on the desired appearance. It can be applied with a brush, roller, airless sprayer (nozzle ≥ 417) or industrial coating process.

To adjust transparency and enhance wood visibility, KEIM Lignosil-Verano can be mixed with KEIM Lignosil-Verano-DL at any dilution level. A transparent version of KEIM Lignosil-Verano, mixed 1:1 with KEIM Lignosil-Verano-DL, is available ready-mixed ex works. The colours are designated as follows, e.g. the transparent colour 4870 becomes T870.

PAINT STRUCTURE:

DRYING TIME:

Surface dry after 4 hours at the earliest (at 23 °C and 50% relative humidity) At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

CLEANING OF TOOLS:

Clean immediately with water.

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5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
20	L	22	tin bucket
5	L	70	tin bucket
2.5	L	160	tin can
1	L	210	can

6. STORAGE

Maximum storage time	Storage conditions
12 months	cool frost-free keep container tightly sealed. protected from heat and direct sun.

7. DISPOSAL

For disposal information refer to section 13 of the safety data sheet.

Waste code: 08 01 12

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet. EU limit value for this product (Kat. A/d): 130 g/l.

This product contains: 0 - 5 g/l VOC. DE-UZ 12a: Keep out of reach of children. Wear safety goggles and A2/P2 combination filter during spraying, and a P2 dust filter during grinding. Ensure good ventilation during application and drying. Avoid eating, drinking and smoking during application. In case of contact with eyes or skin, rinse immediately with water. Do not allow to enter drains, water or soil. Only recycle completely empty containers; dispose of liquid residues at a collection point for old paint. May contain traces of preservatives. Allergy hotline: +49(0)6132/84463.

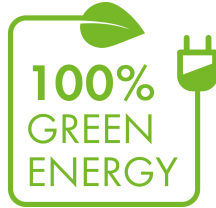
GIS code: BSW 40

9. GENERAL INFORMATION

Cover surfaces not to be treated, especially glass, ceramics and natural stone. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water.

Mixing with products not part of the system or other foreign additives is not permitted.

10. CERTIFICATES & QUALITY SEALS



The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.