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 has been awarded Cradle to Cradle Certified® Full Scope Silver, Material Health Gold and Circularity Silver in accordance with Version 5.0.

2. FIELD OF APPLICATION

Silicate weathering glaze in the KEIM Lignosil system for the finishing of non-dimensionally stable and partially dimensionally stable timber components in external applications, with a finely sawn, rough-sawn or micro-grooved/fine-textured surface. Suitable for internal use. Note: KEIM Lignosil-Verano does not provide water protection in accordance with DIN EN 927-2.

3. PRODUCT PROPERTIES

- Cradle to Cradle Certified® Full Scope Silver (Version 5.0)
- Cradle to Cradle Certified® Material Health Gold (Version 5.0)
- Cradle to Cradle Certified® Circularity Silver (Version 5.0)
- matt finish
- non-film forming
- no blocking
- good adhesion
- simulates a natural, greyed, patinated wood surface
- Blue Angel DE-UZ 12a
- permeable
- fast-drying
- ready to use
- lightfast
- 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.
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:
Ensure the ambient and substrate temperatures are ≥ 5 °C during application and drying. Do not apply in direct sunlight or onto substrates heated by the sun. Protect surfaces from direct sunlight, wind and rain during and after application.

MATERIAL PREPARATION:

CONSUMPTION:
approx. 0,20 L/m² for two coatings.
The information on material consumption is a guide for smooth substrates. Exact consumption figures must be determined by carrying out 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, greater layer thicknesses or lower temperatures, the drying time is extended accordingly.

CLEANING OF TOOLS:
Clean immediately with water.

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

Refer to the safety data sheet. EU limit value for this product (Cat. A/d): 130 g/l.
This product contains: 0 - 1 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, particularly glass, ceramics and natural stone. Splashes on surrounding surfaces or traffic areas must be immediately diluted with plenty of water and removed.
Mixing with products from other systems or other external 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.

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