TECHNICAL DATA SHEET

KEIM LIGNOSIL®-INCO

1. PRODUCT DESCRIPTION

KEIM Lignosil-Inco is an innovative sol-silicate paint for wood and wood-based materials in interior areas. KEIM Lignosil-Inco preserves the natural hygroscopic properties of wood, thus ensuring a natural and pleasant indoor climate. KEIM Lignosil-Inco 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

For opaque and glazed silicate paint coatings and for decorating wood and wood-based materials indoors

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)
- non-film forming
- from opaque up to translucent finish
- mineral matt
- Blue Angel DE-UZ 12a
- permeable
- unequalled colour stable
- lightfast
- UV-resistant
- no solvents added
- no preservatives added
- no plasticisers added
- without addition of film protection agents

MATERIAL CHARACTERISTICS:

– Density	Approx. 1.2 g/cm³ - 1.4 g/cm³
– Organic content	< 5 %
– pH value	approx. 11
– Colour fastness (Fb-code pursuant to BFS Leaflet No. 26)	A1

COLOUR SHADES:
White and colour shades are produced exclusively with purely mineral, lightfast pigments. All colours can be mixed together. Note: Due to system limitations, the colour location of colours 9001 – 9010 differs from the representation in the KEIM Exclusiv colour chart.

COMPOSITION
Sol-silicate mixture (aqueous solution), polymer, titanium dioxide, inorganic colour pigments (depending on colour), water, water repellent, stabiliser, thickening agent, defoaming agent, wetting agent.

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:
The substrate must be stable, dry (wood moisture content below 9 ± 3% indoors, in accordance with BFS data sheet no. 18), clean and free of all loose particles, dust, oil and other substances that could cause separation. In the case of wood coatings, discolouration may occur due to wood ingredients. Please refer to the Technical Data Sheet KEIM Lignosil-Scudo.

Non-suitable substrates:
horizontal and inclined surfaces exposed to weathering; mechanically stressed surfaces; Larchwood

APPLICATION CONDITIONS:
The air and substrate temperature during application and drying must be ≥ 5 °C.

MATERIAL PREPARATION:

CONSUMPTION:
approx. 0,2 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:
KEIM Lignosil-Inco can be applied with a brush, roller or airless sprayer (nozzle ≥ 417). Coatings with KEIM Lignosil-Inco must always be applied twice. The final coat should be applied after the first coat has dried, at the earliest after 24 hours. To achieve opaque coatings, KEIM Lignosil-Inco should be applied undiluted. Glazed coatings can be achieved by diluting KEIM Lignosil-Inco with KEIM Lignosil-Inco-DL. A mixing ratio of 1:1 to 1:20 (KEIM Lignosil-Inco : KEIM Lignosil-Inco-DL) is recommended.
Note: The colour effect of KEIM Lignosil-Inco 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. Discolouration may occur in wood coatings due to wood constituents. Please refer to the KEIM Lignosil-Scudo technical data sheet for more information

PAINT STRUCTURE:

DRYING TIME:
Can be overcoated after 24 hours at the earliest (at 23°C and 50% RH). 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		tin 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 - 2 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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