



TECHNICAL DATA SHEET

KEIM LIGNOSIL®-ARTIS

1. PRODUCT DESCRIPTION

KEIM Lignosil-Artis is an opaque silicate thin-layer paint for non-dimensionally stable and limited dimensionally stable wood components, which is absolutely UV-stable pigmented and emphasises the structure of rough-sawn and structure-planed surfaces. The luminosity of the colour shades and the variety of colours enable particularly colour-deep aesthetic wood surfaces. KEIM Lignosil-Artis meets the highest ecobau requirements and makes a special contribution to sustainable façade design thanks to its product properties. KEIM Lignosil-Artis is awarded with Cradle to Cradle Certified® Silver and C2C Certified Material Health Certificate™ Gold.

2. FIELD OF APPLICATION

KEIM Lignosil-Artis is suitable for sustainable, UV-stable and particularly aesthetic timber components. KEIM Lignosil-Artis is suitable for rough-sawn and structure-planed timber components made of spruce and fir. At the same time, KEIM Lignosil-Artis is very easy to process and particularly suitable for factory application on coating lines. Without the risk of blocking and due to an extremely fast drying (two-layer structure), highly efficient production processes are made possible. The low consumption, favourable maintenance and easy renovation make KEIM Lignosil-Artis absolutely economical over the entire life cycle of the wood component.

3. PRODUCT PROPERTIES

- fast drying
- economical in consumption
- easy to clean
- no blocking
- non-film forming
- Cradle to Cradle Certified®-Certificate Silver
- C2C Certified Material Health Certificate™ Gold
- permeable
- unequalled colour stable
- absolutely UV-resistant
- absolutely lightfast
- Protects the wood from UV-radiation
- no plasticisers added
- no solvents added
- without addition of film protection agents
- low-odour

MATERIAL CHARACTERISTICS:

- Density: ca. 1,2 g/cm³

CLASSIFICATION:

- Diffusion-equivalent air layer thickness (sd-value): < 0,01 m
- Norm Diffusionsäquivalente Luftschichtdicke DIN EN ISO 7783: DIN EN ISO 12572 wet-cup

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COLOUR SHADES:

White and colour shades only with purely mineral, light-resistant pigments.

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The substrate must be load-bearing, dry (wood moisture content below 18 %, according to BFS Leaflet No. 18), clean and free from all loose particles, dust, oil and other substances with a separating effect. Do not sand the substrate, only clean it. The substrate must be rough-sawn or texture-planed and must be made of spruce or fir. Smoothly planed wood should be sanded with KEIM Lignosil-Artis (sanding grit 40s - 60s) before treatment.

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.

APPLICATION:

Application is carried out with industrial coating processes (e.g. Impregmat or Vacumat). Renovations are carried out using standard manual processes. A coating with KEIM Lignosil-Artis must always be applied twice without dilution!

Note: The very fast drying of KEIM Lignosil-Artis minimises the activation of wood ingredients. Nevertheless, discolouration due to wood constituents may occur. Due to the absolutely diffusion-open formulation, these can also occur later. Such discolourations are not stable and are degraded by sunlight and washed off by rain.

KEIM Lignosil-Artis is a surface treatment that protects against UV light without moisture protection. KEIM Lignosil-Artis is not a coating according to DIN EN 927.

DRYING TIME:

Surface dry after 0.5 hours at the earliest (at 23 °C and 50% relative humidity) Can be overcoated after 2 hours at the earliest (at 23 °C and 50% RH). At higher relative humidity, layer thicknesses and/or lower temperatures, drying is delayed accordingly.

CONSUMPTION:

approx. 0,2 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.

CLEANING OF TOOLS:

Clean immediately with water.

5. PACKAGING

Container content	Unit of measure	Type of container
5	l	tin bucket
20	l	tin bucket
1	l	can

6. STORAGE

max. storage time	Storage conditions
12 months	cool frost-free

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max. storage time	Storage conditions
	keep container tightly sealed. protected from heat and direct sun.

7. DISPOSAL

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

EC WASTE CODE:

EC WASTE CODE: 08 01 12

8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

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.