



## TECHNICAL DATA SHEET

# KEIM LIGNOSIL®-BASE

## 1. PRODUCT DESCRIPTION

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KEIM Lignosil-Base is a highly specialised primer for exterior wood. Due to the special alkyd resin-based formulation, KEIM Lignosil-Base consolidates the wood surface, its unique silicate fine fillers ensure an optimal bond to the paint coating KEIM Lignosil-Color.

## 2. FIELD OF APPLICATION

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Primer in the KEIM Lignosil system for weather protection of non-dimensionally stable and limited dimensionally stable wood components.

KEIM Lignosil-Base do not use as top coat. KEIM Lignosil-Base must always be recoated with KEIM Lignosil-Color.

Exception: On-site coating of cut surfaces in non-visible areas.

## 3. PRODUCT PROPERTIES

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- excellent moisture protection (within the KEIM Lignosil-System)
- excellent adhesion
- solidifying
- good penetration property
- tested according to DIN EN 927
- externally monitored by the Fraunhofer WKI (Nr.OT.135-2010)
- European patent EP 2 208 544
- solvent-containing
- unique silicate components

### MATERIAL CHARACTERISTICS:

- Density: approx. 0,9 - 1.0 g/cm<sup>3</sup>
- Solids: approx. 60 %

### CLASSIFICATION:

- Classification according to: DIN EN 927
- Diffusion-equivalent air layer thickness (sd-value): < 0,5 m
- Test standard Diffusion equivalent air layer thickness: DIN EN ISO 12572 wet-cup
- Water absorption value mc ≤: 175 g/m<sup>2</sup>
- Standard for water absorption value mc: DIN EN 927-2

### COLOUR SHADES:

colourless

## 4. APPLICATION INSTRUCTIONS

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### 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. Coating of old coatings is possible

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after inspection. However, it is recommended to remove old coatings as completely as possible. Weathered surfaces are to be sanded down to the sound wood. Oily wood should be cleaned with nitro thinner.

### APPLICATION CONDITIONS:

Ambient and substrate temperature  $\geq 5$  °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:

KEIM Lignosil-Base The wood must be primed once or twice with a brush, roller or machine, e.g. with an airless device (nozzle  $\geq 512$  ) or automatic brush. New wood must always be primed on all sides before installation. When renovating technically intact old coatings (overhaul) and for surfaces with low to medium stress, a single primer coat with KEIM Lignosil-Base can be applied. For heavily stressed surfaces and to achieve the longest service life, a double priming is recommended.

Note: Please observe DIN EN 927. If necessary, KEIM Lignosil-Base can be diluted up to max. 10 % with Lignosil-Base-DL. After drying, the primer is to be overcoated with Lignosil-Color as a top coat. Observe drying times!

Note: All cut surfaces must be protected against moisture by coating with KEIM Lignosil-Base!

Paint coating: The paint coating is applied twice, on the visible side and undiluted with Lignosil-Color.

### DRYING TIME:

Surface dry after 6 hours at the earliest (at 23 °C and 50% relative humidity) Can be overcoated after 24 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. 0,1 l/m<sup>2</sup> for application as primer.

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 turpentine substitute.

## 5. PACKAGING

Container content	Unit of measure	Quantity on pallet	Type of container
20	l	22	tin bucket
5	l	96	tin bucket
2.5	l	120	tin can
200	l	1	barrel

## 6. STORAGE

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

## 7. DISPOSAL

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

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### EC WASTE CODE:

Waste code: 08 01 11 \*

## 8. SAFETY INSTRUCTIONS

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Please, refer to the Material Safety Data Sheet.

### GISCODE:

GIS code: BSL 50

## 9. GENERAL INFORMATION

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The information on the diffusion-equivalent air layer thickness applies to two coats of KEIM Lignosil-Base and KEIM Lignosil-Color.

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.

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.