



## TECHNICAL DATA SHEET

# KEIM LIGNOSIL®-COLOR

## 1. PRODUCT DESCRIPTION

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KEIM Lignosil-Color Lignosil-Base/-W is an opaque silicate paint coating for exterior wood. In combination with the primer KEIM Lignosil-Base/ Lignosil-Base-W, KEIM Lignosil-Color forms a durable weather protection coating.

## 2. FIELD OF APPLICATION

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

Hint:

Low-knot and low-resin woods are to be preferred. In the case of knotty woods, please note that knot cracks / loose knots can lead to paint damage in the knot area (spalling due to moisture ingress).

Not suitable for:

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

## 3. PRODUCT PROPERTIES

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- easy to renovate
- particularly economic to refinish
- excellent moisture protection (within the KEIM Lignosil-System)
- mineral matt
- excellent adhesion
- tested according to DIN EN 927
- tested by Holzforschung Austria (research and testing institute for wood)
- European patent EP 2 208 544
- externally monitored by the Fraunhofer WKI (Nr.OT.135-2010)
- non-film forming
- unequalled colour stable
- extremely weather-resistant
- absolutely UV-resistant
- absolutely lightfast
- unequalled long-lasting
- low-odour

### MATERIAL CHARACTERISTICS:

- Density: approx. 1.4 - 1.6 g/cm<sup>3</sup>
- Colour fastness (Fb-code pursuant to BFS Leaflet No. 26): A1
- Solids: approx. 55 %

### CLASSIFICATION:

- Classification according to: DIN EN 927
- Diffusion-equivalent air layer thickness (sd-value): ≤ 0,5 m
- Norm Diffusionsäquivalente Luftschichtdicke DIN EN ISO 7783: DIN EN ISO 12572 wet-cup

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- Water absorption value  $mc \leq$ : 175 g/m<sup>2</sup>
- Standard for water absorption value  $mc$  DIN EN 927-2: DIN EN 927-2

### COLOUR SHADES:

White and colour shades only with purely mineral, light-resistant pigments. Note: The colour coordinates of the colour shades 9001 – 9010 deviate from the representation in the KEIM Exclusiv colour chart due to the system. All colour shades can be mixed with each other.

## 4. APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues. In the case of wood coatings, discolouration may occur due to wood ingredients. Please refer to the Technical Data Sheet KEIM Lignosil-Scudo. Remove loose and cracked knots and open resin areas and clean wood with suitable agent.

### 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:

It can be applied with an airless device (nozzle  $\geq 417$  ), brush or roller. Industrial application is possible with automatic coating machines (e.g. automatic brush or vacuum machine).

Prime coat: Apply undiluted with KEIM Lignosil-Color to the surface primed with KEIM Lignosil-Base/ Lignosil-Base-W and dried.

Final coat: after drying of the primer coat Apply KEIM Lignosil-Color undiluted..

Note: A covering coating with KEIM Lignosil-Color must always be applied twice without dilution!

### DRYING TIME:

Surface dry after 6 hours at the earliest (at 23 °C and 50% relative humidity) Can be overcoated after 12 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/m<sup>2</sup> 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	Quantity on pallet	Type of container
15	l	22	tin bucket
5	l	70	tin bucket
2.5	l	80	tin can

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### 6. STORAGE

max. 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.

#### EC WASTE CODE:

EC WASTE CODE: 08 01 11 \*

### 8. SAFETY INSTRUCTIONS

Please, refer to the Material Safety Data Sheet.

### 9. GENERAL INFORMATION

The information on the diffusion-equivalent air layer thickness applies to a two-coat application of KEIM Lignosil-Base/-W 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.

### 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.