TECHNICAL DATA SHEET

KEIM LIGNOSIL®-COLOR

1. PRODUCT DESCRIPTION

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

2. FIELD OF APPLICATION

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).

3. PRODUCT PROPERTIES

- mineral matt
- tested according to DIN EN 927
- tested by Holzforschung Austria (research and testing institute for wood)
- externally monitored by the Fraunhofer WKI (Nr.OT.135-2010)
- non-film forming
- low-odour
- easy to renovate
- unequalled colour stable
- weather-resistant
- UV-resistant
- lightfast

MATERIAL CHARACTERISTICS:

– Density	approx. 1.4 g/cm³ - 1.6 g/cm³
– 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
– Standard Diffusion equivalent air layer thickness	DIN EN ISO 12572 wet-cup
– Water absorption value mc ≤	175 g/m²
– Standard for water absorption value mc	DIN EN 927-2

COLOUR SHADES:
White and colour shades are produced exclusively with purely mineral, lightfast 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 solid, dry, clean, sound and free from residues that may impair adhesion. 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 broken branches as well as open resin spots and clean the wood with a suitable agent.

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

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. 0,2 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:
It can be applied with an airless device (nozzle ≥ 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/KEIM 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!

TOP COAT:

PAINT STRUCTURE:

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, 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
15	L	22	tin bucket
5	L	70	tin bucket
2.5	L	80	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 11 *

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.

GIS code: BSW 50

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, 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.

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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