TECHNICAL DATA SHEET

KEIM LIGNOSIL®-BASE-W

1. PRODUCT DESCRIPTION

KEIM Lignosil-Base-W is a specialised, solvent-free primer for timber used outdoors. Based on a special combination of alkyd resins and silicate binders, KEIM Lignosil-Base-W consolidates the timber surface and ensures optimum adhesion to the KEIM Lignosil-Color paint coating.

2. FIELD OF APPLICATION

Primer in the KEIM Lignosil system for weather protection of non-dimensionally stable and limited dimensionally stable wood components. KEIM Lignosil-Base-W do not use as top coat.
KEIM Lignosil-Base-W must always be recoated with KEIM Lignosil-Color.
Exception: On-site coating of cut surfaces in non-visible areas.
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 penetration).

3. PRODUCT PROPERTIES

- solidifying
- tested according to DIN EN 927
- good penetration property
- optimal bond with the top coating
- water-based
- low-odour
- forced drying possible
- ready to use
- without the addition of solvents

MATERIAL CHARACTERISTICS:

– Density	approx. 1.0 g/cm³ - 1.1 g/cm³
– pH value	approx. 7
– Solids	approx. 45 %

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:
colourless

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:
The substrate must be stable, dry (wood moisture content below 18% in outdoor areas, in accordance with BFS data sheet no. 18), clean and free of all loose particles, dust, oil and other substances that could cause separation. Remove loose and broken branches as well as open resin spots and clean the wood with a suitable agent. Coating of old coatings is possible 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.

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 ≥ 8 °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:
KEIM Lignosil-Base-W should be primed twice with a brush, roller or machine, e.g. with an airless device (nozzle ≥ 512), automatic brush or vacuum. New wood must always be primed on all sides before installation. When renovating technically intact old coatings (overhaul) and for surfaces with low stress, a single primer coat with KEIM Lignosil-Base-W 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. After drying, the primer is to be overcoated with KEIM Lignosil-Color as a top coat. Observe drying times!
Note: All cut surfaces must be protected against moisture by coating with KEIM Lignosil-Base-W!
Paint coating: The paint coating is applied twice, on the visible side and undiluted with KEIM Lignosil-Color.

TOP COAT:

PAINT STRUCTURE:

DRYING TIME:
Surface dry after 2 hours at the earliest (at 23 °C and 50% relative humidity) Can be overcoated after 8 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	96	tin bucket
2.5	L	120	tin can

6. STORAGE

Maximum 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.

Waste code: 08 01 12

8. SAFETY INSTRUCTIONS

Refer to the safety data sheet. EU limit value for this product (Cat. A/e): 130 g/l.
This product contains: 11 - 13 g/l VOC.

GIS code: BSW 20

9. GENERAL INFORMATION

The information on the diffusion-equivalent air layer thickness applies to two coats 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.

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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