



TECHNICAL DATA SHEET

KEIM LIGNOSIL®-BASE-W

1. PRODUCT DESCRIPTION

KEIM Lignosil-Base-W is a highly specialised primer for wood in exterior spaces. KEIM Lignosil-Base-W consolidates the wood surface thanks to a specific combination of alkyd resins and silicate binders and guarantees an ideal compound with the colour finish KEIM Lignosil-Color.

2. FIELD OF APPLICATION

Primer as part of the KEIM Lignosil-System for weather protection of non-dimensionally stable and limited dimensionally stable wood. Do not use KEIM Lignosil-Base-W as a finish coating! KEIM Lignosil-Base-W must always be refinished with Lignosil-Color, except on-site coating of cut surfaces in non-visible areas.

3. PRODUCT PROPERTIES

- Water-dilutable
- Low-odour
- For the most part from renewable resources
- Excellent moisture protection (within the KEIM Lignosil-System)
- Optimal bond with the top coating
- Good penetration property
- Solvent-free
- Consolidating
- Specific formulation of alkyd and silica sol
- Tested to DIN EN 927
- Forced drying possible

Material characteristics:

- Solids: approx. 45%
- Density: approx. 1.0 - 1.1 g/cm³
- Binding agent: combination of alkyd and silica sol
- Diffusion-equivalent air layer thickness: $s_d^* < 0.5$ m
(DIN EN ISO 12572 Wet-Cup)
- Water absorption values: $mc^* \leq 175$ g/m²
(DIN EN 927-2)

*2x (KEIM Lignosil-Base-W + KEIM Lignosil-Color)

Colour shade:

Colourless

4. APPLICATION INSTRUCTIONS

Substrate preparation:

The substrate must be sound, dry (below 18% wood moisture content acc. to technical information No. 18 by BFS), clean, free of loose parts and substances with separative properties such as oil or dust.

Old coatings can be recoated after examination. It is recommended, however, to remove the old coatings as far as possible. Weathered surfaces have to be sanded down to sound wood substrate. Oily wood types have to be cleaned with white spirit. Planed larch wood is for the treatment not suitable.

Priming:

KEIM Lignosil-Base has to be applied once or twice by paint brush, roller or by machine, e.g. airless sprayer or brush coating machine. New wood must be always primed twice and all around.

A one-coat priming with KEIM Lignosil-Base can be performed when renovating technically intact old coatings and surfaces exposed to low up to medium stress.

A two-coat priming application is recommended for surfaces exposed to severe loads and to achieve the highest service life.

Note: Please refer to DIN EN 927. KEIM Lignosil-Base can be diluted with maximal 10% of KEIM Lignosil-Base-DL if needed.

After drying a finish with KEIM Lignosil-Color is required. Please, observe drying times!

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

Colour finish:

The colour finish of the visible face is applied twice and undiluted with KEIM Lignosil-Color.

Application conditions:

Ambient and substrate temperature $> +8^\circ\text{C}$. Apply in dry weather only. Do not apply in strong sunlight, onto sun-heated substrates or in strong wind. Protect coated surfaces from too fast drying, direct sunlight, wind and rain also after application.



Drying time:

KEIM Lignosil-Base-W is dust-dry after approx. 2 hours at 23 °C and 50% relative atmospheric humidity and usually recoatable after 8-12 hours. Forced drying or good ambient conditions accelerate the drying process, however, lower temperatures and/or higher relative humidity slows it down.

Consumption:

Approx. 0.1 l/m² of KEIM Lignosil-Base-W for two priming coats on planed, new wood depending on wood type.

This consumption value is a guide value. Exact values depend on substrate texture and application method and can only be determined by trial areas.

Cleaning of tools:

With water.

5. PACKAGING

2.5 l, 5 l and 20 l container

6. STORAGE

Shelf life is approx. 6 months in sealed container under cool, frost-free conditions. Protect from heat and direct sun.

7. DISPOSAL

EC Waste Code No. 08 11 01

Any residues must be emptied out of containers before recycling.

Note:

Wood treated with KEIM Lignosil falls under class A II according to the waste wood ordinance (laminated, coated, lacquered waste wood without halogen-organic compounds in the coating and without wood preservatives).

8. SAFETY INSTRUCTIONS

Giscode: BSW50

Please refer to the EC Safety Data Sheet

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 those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with. We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.

