



TECHNICAL DATA SHEET

KEIM LIGNOSIL® VERANO

EXTERIOR GRAYING WOOD STAIN

1. PRODUCT DESCRIPTION

KEIM Lignosil-Verano is a mineral silicate graying stain for exterior wood façade cladding. Treating wood simulates an aged, grayed surface as it would look after several years of weather aging. Lignosil-Verano penetrates the wood but does not develop a film on the surface to allow wood to naturally breathe and dissipate internal moisture vapor. It offers limited water repellency, and the mineral binder and translucent oxide pigments are completely UV stable. A chief benefit is the uniform graying of wood surfaces, regardless of variable exposure to sun and rain.

2. FIELD OF APPLICATION

Designed for use on natural wood cladding in exterior vertical installations. Ideally, wood should be prepared with a rough or sawn surface for maximum stain penetration. Not for use on deck, traffic surfaces or wood furniture.

3. PRODUCT PROPERTIES

Pure mineral silicate binder penetrates the wood and provides a weather-resistant, translucent color, allowing the wood to age to gray uniformly. It is easy to refresh with additional applications in the future.

- Economical over lifecycle
- Fast-drying, boards can be stacked quickly without stickiness
- Ready to use
- Simulates a natural, grayed, patinated wood surface
- Matte-flat natural appearance—no angular sheen
- Non-film forming, will never blister or peel
- No blocking, stacked boards will not stick together

- Deep penetration for excellent adhesion
- Vapor permeable, completely breathable
- Lightfast, color will not fade
- Binder and color are completely UV-resistant
- Zero VOC, solvent-free
- No biocides or anti-microbial additives
- Contains no plasticizers
- Compliant with all environmental codes
- Cradle to Cradle certified
- Easy to use, water-only clean-up
- No Odor

Color

Available in a variety of naturally mineral oxide-pigmented colors, including metallic finishes. Contact your Keim representative for the availability of colors, or visit keim-usa.com. NOTE: Colors depend on the wood's species and application method. Actual color samples are recommended for final color selection. A two-coat application is recommended for the most uniform appearance.

Sheen

Mineral matte flat—no angular sheen

Performance Characteristics

VOC	Zero
Weight/gallon	9.8—10 lbs
pH	Approx. 11
Vapor Diffusion (sd-value)*	< 0,02 m extremely breathable layer

*DIN EN ISO 12572 wet-cup

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Environmental Compliance

EPA	YES
LEED	YES
CARB	YES
SCAQMD	YES
Cradle to Cradle	SILVER
C2C Material Health	GOLD
Sustainability Data Sheet	YES
100% Green Energy	YES
Blue Angel DE-UZ 12a	YES

VOC: zero VOC

4. SURFACE PREPARATION

The bare wood substrate must be sound, dry, and free of dust, oils, or other contaminants. Smooth wood should be planed or sanded to provide a porous surface. Wood moisture content must be below 18%. Do not apply to previously painted, stained, or clear-treated wood.

Mixing

Lignosil-Verano contains mineral oxide pigments, which can settle out during transport to your job. Use a slow-speed drill with a paint paddle to mix until the mixture is completely homogenous, with no pigment left on the bottom of the container. Do not incorporate excess air into the stain. When using multiple containers of the same color, box material to ensure uniform color distribution.

Thinning

Stain is supplied ready-to-apply and results in a semi-transparent stain color. If less color is desired, thin the stain with Lignosil-Verano DL, a clear silicate dilution, to add transparency. Adding dilution alters the color but does not minimize the stain's performance.

5. APPLICATION

Application conditions

Ambient and substrate temperature: 40°F and rising and below 90°F. Do not apply in direct sunlight or onto sun-heated wood by working ahead of the sun. Protect stained surfaces from rain during and after application for 12 to 48 hours.

Application

Lignosil-Verano is applied in one or two coats, depending on the wood's texture and porosity and the desired appearance. Rough-sawn wood absorbs more stain, delivering deeper colors in a single coat.

Apply by brush, roller, or airless spray with a minimum of 3000 psi. To allow for more precise control of spray application, use a 417 tip (.017") with an 8" fan.

Factory application by most industrial coating methods is also recommended. Consult Keim for more details for industrial applications.

Drying times

Drying times are temperature, humidity, and coverage dependent.

	@ 40-50°F	@ 50°F +
Touch:	4 hours	2--4 hours
Recoat:	24--48 hours	12--24 hours

Lignosil-Verano drying time is temperature and humidity dependent.

Coverage

Coverage depends on surface texture and porosity, application conditions, methods, and skill. Only an on-site mock-up can determine actual coverage.

Each coat Coverage: 150—250 SF/Gal

Cleaning

Clean spills, spatters, hands, and tools immediately after use with soap and warm water. Do not allow stains to dry on glass, ceramic, stone, or other mineral surfaces, as they will be difficult to remove once they have dried.

Mixing with other products

Do not mix Lignosil-Verano with other products.

6. PACKAGING

1 gallon and 5.3 gallon (20 liters) in steel bucket

7. STORAGE

Approximately 12 months in tightly closed container under cool, frost-free conditions. Protect from heat and direct sunlight and freezing.

8. DISPOSAL

Completely emptied containers should be disposed of in accordance with local, state, and federal waste regulations. For complete

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

HAZARDOUS SUBSTANCE CLASS

n/a

9. SAFETY INSTRUCTIONS

Lignosil Verano is alkaline. Cover all areas not to be coated, especially glass, ceramics, concrete, and natural stone. Wear protective clothing and gloves. Protect your eyes and skin from splashes. Prolonged skin exposure may result in mild irritation and may require medical assistance. Do not swallow.

Keep out of reach of children.

Please, refer to the Material Safety Data Sheet for complete instructions.

The stated values and properties result from extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to aid in selecting our products and do not establish a contractual relationship. 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 modify the products or their application. This edition supersedes all earlier editions.

