

KEIM Restaurolasur

Pigmented mineral stain for stone and masonry



1. Product description

KEIM Restaurolasur is a sol-silicate based, ready-to-use thin layer mineral stain/coating ideal for natural stone and masonry. KEIM Restaurolasur has water repellent properties and fulfills the requirements of DIN 18363, 2.4.1.

2. Field of application

KEIM Restaurolasur is ideally suited for providing a mineral finish for color-matching the finish on masonry and stone surfaces, e.g. to match the color of repairs to the original substrate or to change the color of the entire substrate. Complex color schemes can be achieved by layering different colors with different degrees of transparency resulting in the final finish.

KEIM Restaurolasur Dilution can be used to dilute KEIM Restaurolasur in any ratio, depending on the desired final effect or transparency of the color.

3. Product properties

Surfaces finished with the KEIM Restaurolasur system are:

- Lightfast, will not fade
- Weather resistant
- Resistant to environmental influences
- Mineral matt natural looking finish that lasts
- LEED - yes

Material characteristics

- Specific weight: approx. 1.15 g/cm³
- Vapor diffusion resistance: $s_d < 0.01$ m
- VOC's (white and tinted) ASTM D6886: < 1 g/l
- Vapor Permeability 75 - 85 perms
- Lightfastness of color pigment: A1
(Fb-Code acc. to BFS instruction sheet No. 26)
- Non-flammable

Color shade

KEIM's natural stone color swatch, KEIM-Palette Exclusiv and custom color matching is available.

4. Application instructions

Substrate preparation

The substrate must be sound, solid, dry, clean and free of dust, grease, oils, salts, moss, algae and other substances that would prevent bonding. Old resin coatings, loose substrate layers and organically bound coats must be removed. For very low absorbent, highly absorbent or uneven absorbent substrates KEIM Spezial-Dilution should be used to pretreat and prepare the surface for KEIM Restaurolasur.

Sanding or dusting substrates require a colorless prefixing treatment with undiluted KEIM Restaurolasur Dilution.

Translucent finishes

For low-pigment coatings: mix KEIM Restaurolasur with KEIM Restaurolasur Dilution up to the desired degree of translucency. Dilutions in any ratio are possible. Mixing ratios from 1:1 up to 1:20 are common. Two coats are required on the exterior for weather resistance. If more opacity is desired additional coats can be applied or Restaurolasur can be applied undiluted for the second coat.

Transparent finishes

In exterior applications, two coats must be applied to ensure weather resistance. If a finish is desired that is highly transparent, just one coat may be applied provided that KEIM Restaurolasur Dilution has been used to prefix the substrate.

Application

It is important to keep stirring the Lasur mix before and during work. Water or other products must not be added.

The prepared Lasur mix is applied cross-wise with a Lasur brush (e.g. the oval KEIM Lasur brush), by roller or by airless spray and back rolled. It is important to work swiftly wet-in-wet and to maintain a wet edge to a corner or architectural feature.



Base coat

The base coat is commonly applied in Dilution ratios of 1:1 to 1:20 with KEIM Restauro-Dilution or KEIM Spezial-Dilution.

Finish coat

The top coat may be applied, depending on the desired finish, using KEIM Restauro-Lasur undiluted for opaque finishes or for a higher translucency diluted with KEIM Restauro-Dilution. Additional coats may be applied allowing proper drying time between coats.

Additional waterproofing

Especially in the case of thin low-pigment finishes (a highly diluted Restauro-Lasur coating), additional waterproofing may be necessary on surfaces that may be exposed to severe weathering and water loads or to protect moisture sensitive building materials. In such cases, a water-repellent priming coat of KEIM Silan-100 or KEIM Silangrund must be used followed by 2 coats of the KEIM Restauro Lasur in the desired dilution ratio.

Application conditions

Air and substrate temperature: >41 °F up to max. 86 °F (5 °C - 30 °C).

Apply only to dry surfaces and in dry weather. Do not apply under direct sun or on sun-heated substrates or in strong wind. Surfaces must be protected after application from rain, wind and direct sun until they are completely cured.

Drying times

A drying time of 12 hours must be allowed between prefixing/priming and the first coat of KEIM Restauro-Lasur, and a drying time of 24 hours must be allowed between all coats of KEIM Restauro Lasur.

In the case of priming with KEIM Silan-100 or KEIM Silangrund, the first coat of KEIM Restauro Lasur must be applied after approx. 4 - 12 hours.

Consumption

Pretreatment KEIM Restauro-Dilution:

600 - 800 sq.ft./1.3 gallon (5 l) container

KEIM Restauro-Lasur finish:

Stated values are for undiluted or diluted ready to use material

375 - 625 sq.ft./gallon

The quantity of KEIM Restauro-Lasur and KEIM Restauro-Dilution depends on the mixing ratio. A trial application using the tools and techniques for the final application may be required.

The consumption values given are for guidance and depend on the desired translucency effect, application method and substrate condition. Exact values may only be determined by a trial application on site.

Note

Surfaces treated with KEIM Restauro-Lasur do not require post treatment with a water-repellent.

Cleaning of tools

Clean with water immediately after use.

5. Packaging

1 gallon
2 gallon
and
4 gallon (packaged in a 5 gal pail)

6. Storage

KEIM Restauro-Lasur has a shelf life of 12 months in closed containers under cool, frost-free conditions. Protect from heat and direct sunlight.



7. Hazardous substances ordinance class

n/a

8. Transport hazard class

n/a

9. Disposal

EC Waste Code no. 08 01 12

Any residues must be emptied out of containers before recycling.

10. Safety instructions

Provide appropriate protection for surfaces which are not to be treated. Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with water. Protect the eyes and skin from splashes. When using, do not eat, drink or smoke. Keep out of reach of children.

Product code: M-SK 01

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.

