



arteMURI® F4 SIL



Transparent potassium silicate fixative.



Product description and fields of application

F4 SIL is a water-based mineral fixing agent, for exterior and interior wall surfaces, based on potassium silicate modified with special compatible binders and in compliance with DIN 18363 point 2.4.6, to be used in the pre-treatment of substrates, in mineral cycles. In fact, thanks to its high degree of penetration and fixing power, it promotes adhesion and reduces the absorption of the support, without altering its mineral characteristics. F4 SIL contains water-soluble potassium silicate that, after being applied to the substrate, reacts with the carbon dioxide in the air and with the calcium salts in the plaster layer, giving rise to calcium silicate, a mineral salt that has characteristics of high consolidation and adhesion by acting on the crystalline structure of the substrates.

Thanks to these characteristics, F4 SIL is an excellent mineral fixing agent, suitable for any kind of wall surface plastered with lime-hydraulic binder based mortar, ready-mixed and traditional, finished in civil and not, for brush finishing, filler coatings and thick plaster of silicate and lime class. It can also be used for thinning silicate paints.

Advantages

- high penetration power
- consolidating properties
- high adhesion
- absorption reduction

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Specifications

The wall surfaces of historical and artistic interest, such as lime-based plasters, premixed and traditional, finished in civil, can be pre-treated with the fixative of water-based mineral impregnation, for external and internal wall surfaces, F4 SIL of Fornaci Calce Grigolin, product based on potassium silicate.

The minimum consumption of this product is 0.07 l/m².

Consumption and packaging

F4 SIL is supplied in 15 litre packages.

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Conservation Standards

Protect from frost. Store at temperatures between +5°C and +30°C in the original sealed containers. Under these conditions the shelf life of the stored product is at least one year.

Substrate preparation

New substrates and/or any repairs (patches) must be cured by at least 4 weeks, clean and dry. Old substrates must be consistent, free of salt efflorescence and loose parts, thoroughly cleaned according to the nature and intensity of the dirt deposited on the surfaces to be treated. To level and fill imperfections such as holes, cracks or crevices, first intervene with a suitable product or repair mortar. Clean up any mold or algae and then sanitize the surface with SEI OK restorer.

On surfaces already painted with mineral paints, make sure of the condition of the film: brush and/or scrape the detaching film, completely remove high layers of non-adherent paints.

On surfaces that have already been painted with well adhering synthetic paints, it is possible to work with the universal primer PRIMER UNO-KO GM, bearing in mind, however, that the vapor permeability will be determined by the underlying layer of synthetic paint.

Due to the chemical reaction described above, silicate products CANNOT be applied to gypsum, plasterboard, wood and metal substrates.

Product preparation

Dilution depends on the substrate absorption: generally F4 SIL is ready to use; for less absorbing substrates it is preferable to dilute the product more, up to 50% parts with water.

Application

The product should preferably be applied by brush and uniformly, but it is also possible to apply it by roller, spray or airless. After about 6-8 hours, in standard environmental conditions, you can proceed with the application of the finish.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

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Important Warnings

Do not apply with ambient and/or substrate temperature lower than +5°C or higher than +35°C and with relative humidity higher than 75%. Avoid application in presence of superficial condensation, under direct sunlight or strong wind. Wash tools and equipment with water immediately after use.

Special Warnings

MASK AND PROTECT AREAS THAT ARE NOT TO BE PAINTED AS SILICATE CAN ATTACK GLASS, METALS, CERAMICS, GLAZING, PAINT, MARBLE AND GRANITE.

Safety instructions

The product does not require hazard labeling under current regulations. Use the products according to current hygiene and safety regulations. After use, do not dispose of containers in the environment. Let the residues dry well and treat them as special waste. For further information please refer to the safety data sheet.

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TECHNICAL DATA	PERFORMANCE
Binder type	Potassium silicate modified with compatible binders
Appearance	liquid, milky
Specific weight (UNI EN ISO 2811-1) 25°C±2	1050 ± 20 g/l
Water vapor permeability and classification (UNI EN ISO 7783-2)	Does not alter the vapor permeability of the substrate
VOC content (DIR. 2004/42/EC)	Fixing primer - cat. A EU limit values for subcategory h, type BA 30 g/l (2010) This product contains maximum 30 g/l VOC
Application	brush preferably, roller, spray or airless
Theoretical consumption	ca. 70-140 g/m² (0,07-0,14 l/m²)
Theoretical yield	7-14 m²/l
Overpainting	6-8 hours

v. 10/2024

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