

Technical Data Sheet

Silsan[®] Cream KL-P

Silicone Impregnating Agent and Priming Coat

Product description

Silsan[®] Cream KL-P is a cream-like, VOC-free impregnating agent based on alkyl-alkoxy-silanes. It confers long-lasting and reliable water repellence to mineral substances such as brickwork and façades combined with a strong beading effect. Furthermore, Silsan[®] Cream KL-P provides a comprehensive protection for brickwork and façade against efflorescence and destruction by water soluble pollutants as well as against frost damage and the attack of micro-organism.

The physical properties of the construction material, especially its water vapour permeability (sd-value) are barely affected by the product.

Silsan[®] Cream KL-P is a high viscosity cream which exhibits the following characteristic properties:

- simple, drip-free application with unproblematic overhead workability
- water and VOC-free
- high concentration of active ingredients
- alkaline stable
- does not build up a film
- extraordinary penetration depth, due to the long contact time with the material surface
- can be applied without any loss, in one single step and without material running
- exhibits a strong beading effect

Silsan[®] Cream KL-P is suited to be applied on any kinds of mineral substances as for example

- mortars
- plaster
- porous concrete
- concrete
- limestone
- natural stone
- industrial made bricks and clinker

Particularly, Silsan[®] Cream KL-P is perfectly suited to be used for concrete repair.

Application

Silsan[®] Cream KL-P can be applied by rolling or painting. Due to its creamy character, a simple, drip and running-free application onto walls and ceilings is possible.

In general, a single application of Silsan[®] Cream KL-P is sufficient, whereby, at a very dense, high-quality concrete, a quantity of 200 g/m² is sufficient.

Application quantities up to 400 g/m² are possible.

The silane active ingredient penetrates the substrate within 30 minutes to several hours, depending on the porosity of the substrate. The milky-white cream course disappears without any residues.

While the cream penetrates, it should not rain onto the treated surface as the cream can easily be rinsed off in that stage. This would lead to a reduced hydrophobic effect.

The water repellent effect of Silsan® Cream KL-P fully develops within 12 to 48 hours after application.

On some substrates, particularly on dark materials, Silsan® Cream KL-P may create some slightly white haze on the surface which does not disappear even when the cream has entirely penetrated.

We highly recommend to check this on small hidden areas prior to large-scale application of the product. If so, we recommend using Silsan® Cream KL in place of Silsan® Cream KL-P.

Storage stability

The packages must not be exposed to direct sunlight or frost.

A storage temperature within a range of + 5 to + 25 °C must be guaranteed.

In originally sealed containers, Silsan® Cream KL-P may be stored for maximum of 12 months after the date of delivery.

Even after shelf life has expired, the product isn't necessarily unfit for use. However, in such case, we highly recommend to inspect the product regarding a potential infestation of bacteria and fungus.

Product properties of Silsan® Cream KL-P

Properties	Value
Composition	high viscosity cream based on silanes and siloxanes
VOC content	VOC-free
Appearance	milky, white, pasteous
Concentration	approx. 40 %
Flashpoint	n.a.
Viscosity (at 20 °C)	n.a.
Density (at 20°C)	approx. 0,8 g/ccm
pH value	n.a.
Packaging*	plastic drums, metal buckets
Storage stability	approx. 12 months at + 5 to + 25 °C

Note:

These figures are only intended as a guide and should not be used in preparing specifications.

* Packaging and transport information:

For reasons of safety during the transportation, please observe the following packaging units when placing your order:

50 kg plastic drums:	6 x 50 kg or 12 x 50 kg on a pallet
125 kg plastic drums:	5 x 125 kg on a pallet
13 kg metal buckets:	6 x 13 kg per layer on a pallet; up to 3 layers per pallet single shipping possible

Special storage and recommendations for use:

- Store the product in a cool, dark place
- In order to prevent contamination with bacteria and fungus spores from the ambient air, the containers should only be opened to remove the product required and be subsequently closed once more. In particular when using plastic drums, see that no dust or dirt from the atmosphere falls into the open drum.
Close the drum immediately after the product has been taken out.
- When a dipper is used, it must be cleaned thoroughly before immersion.
- Once the containers have been opened, use up the complete contents as quickly as possible.



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EN 1504-2:2004

**Surface protection products – hydrophobic impregnation
EN 1504-2: ZA. 1a**

Depth of penetration	Class II: ≥ 10 mm
Water adsorption and resistance to alkali	Absorption ratio < 7,5 % compared with the untreated specimen < 10 % after immersion in alkali solution
Drying rate for hydrophobic impregnation	Class I: > 30 %
Loss of mass after freeze-thaw salt stress	Weight loss requirements fulfilled after at least 20 cycles, compared with untreated specimen
Hazardous substances	Complies with EN 1504-2, 5.3

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials in order to provide for local processing conditions over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position. Recommendations for use do not constitute a warranty, either express or implied, of the fitness or suitability of the products for a particular purpose.