

Technical Data Sheet

Silsan[®] ACF

Silicone impregnating and admixture agent

Product description

Silsan[®] ACF is a solvent-free emulsion concentrate based on reactive siloxanes/silanes, particularly suitable for making neutral substrates, natural stones and aged concrete water repellent.

Silsan[®] ACF guarantees a long-lasting and reliable protection against water and moisture providing the following benefits:

- Effective protection against driving rain
- Efflorescence (leaching) prevention
- Alkaline-resistant
- A non-tacky finish with stain release effect

In most instances, Silsan[®] ACF does not affect the surface appearance.

There is no reduction in physical properties, in particular the water vapour permeability (sd value).

Application

Silsan[®] ACF is suitable for the following fields of application:

- Pre-treatment of building materials such as clinker, fiber cement, curb stones etc.
- Façade treatment for facades made of brick, stone and concrete.
- Admixture for concrete and other cement based formulations

Dosage and Handling

For the production of ready-to-use formulations Silsan[®] ACF may be diluted to tap water at a ratio of between 1:9 and 1:1.

When used as an admixture, we recommend adding 0.1 – 1.0% df., based on cement mass.

Masonry water repellents produced from Silsan[®] ACF should be applied by flooding, brushing or rolling. In order to guarantee a deep penetration the substrate must be dry and clean and must have sufficient porosity. A deep penetration of the substrate is a precondition of a long-lasting and reliable protection against water and rising damp.

It is recommended to evaluate the required dosage by means of representative test areas prior to the final application. Very dense substrates (e.g. marble) may not be suitable for impregnation with products based on Silsan[®] ACF.

Storage stability

The product must be stored under frost-free conditions. The packages must not be exposed to direct sunlight and storage

temperature should stay within a range of + 5 to + 25 °C.

The same applies to dilutions made from Silsan® ACF.

In originally sealed containers Silsan® ACF may be stored for approx. 9 months.

Product properties of Silsan® ACF

Properties	Value
Composition	solvent-free emulsion concentrate based on reactive organo-modified siloxanes
Appearance	milky-white liquid
Active content	approx. 60%
Type of solvent	solvent-free
Solubility	water dilutable
Flashpoint	n.a.
Viscosity (at 20°C)	>50<200 cSt.
Density (at 20°C)	approx. 0,95 g/ccm
pH value	>4,8<5,2
Packing	plastic canisters, plastic drums*, IBC
Storage stability	approx. 9 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 of plastic drums, please observe the following packaging units when placing your order:

55 kg plastic drums: 6 x 55 kg or 12 x 55 kg on a pallet, wrapped in cardboard
140 kg plastic drums: 5 x 140 kg on a pallet

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 I: < 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 %
Hazardous substances	Complies with EN 1504-2, 5.3

Please note that the CE marking only valid at a dilution of 1:6 (product:tap water).

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.