

Technical Data Sheet

Silsan[®] EWS

Silicone Impregnating Agent

Product description

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

Silsan[®] EWS 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[®] EWS does not affect the surface appearance. However, depending on the colouring of the substrate, a slight accentuation of the colour shade is possible.

Silsan[®] EWS is particularly suited to render well pigmented concrete paving blocks water repellent. The tendency of forming white water stains as it usually happens with other aqueous silane/siloxane based impregnating agents after its first water contact, is avoided to the greatest possible extent.

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

Application

Silsan[®] EWS 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.
- Water repellent treatment of pigmented concrete paving blocks.

Dosage and Handling

For the production of ready-to-use formulations Silsan[®] EWS may be diluted to tap water at a ratio of between 1:10 and 1:3.

Masonry water repellents produced from Silsan[®] EWS 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. Depending on the surface condition, the water repellent effect of Silsan[®] EWS typically develops within 24 hours of application. With pigmented concrete paving blocks we recommend to let the product cure for at least 48 hours before exposing it to water. is further 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® EWS.

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.

In originally sealed containers Silsan® EWS may be stored for approx. 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.

Given proper in-can preservation, Silsan® EWS stays fit for use in readily diluted form even after several months of storage.

Product properties of Silsan® EWS

Properties	Value
Composition	solvent-free emulsion concentrate based on reactive organo-modified siloxanes
Appearance	milky-white liquid
Active content	approx. 40%
Type of solvent	solvent-free
Solubility	water dilutable
Flashpoint	n.a.
Viscosity (at 20°C)	30 mPas
Density (at 20°C)	approx. 0,95 g/ccm
pH value	>5<9
Packing	plastic canisters, plastic drums*, IBC
Storage stability	approx. 12 months at + 5 to + 25°C Unfit for use after frost exposure

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
145 kg plastic drums: 5 x 145 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.

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.