

Technical Data Sheet

Silsan[®] SR 300 conc.

Silicone Impregnating Agent and Priming Coat

Product description

Silsan[®] SR 300 conc. is a solvent and catalyst-free mixture of modified silanes, silicone resins and polysiloxanes. It is designed for the industrial production of single component, solvent diluted impregnating agent and priming coats which have a long shelf life and are to be distributed to the end user in this diluted form. Silsan[®] SR 300 conc. allows long lasting, effective impregnation of mineral and alkaline building materials.

Silsan[®] SR 300 conc. is particularly characterised by an extreme fast development of the water repellent effect, whereas it is totally free of catalysts such as organo-tin-compounds.

Impregnated materials demonstrate a high water repellence within just a few hours, which is of great advantage if the impregnation must be done under unstable weather conditions. Furthermore, Silsan[®] SR 300 conc. provides excellent penetration properties even on slightly damp construction materials.

A silicone resin film is formed inside the pores of the construction material, which prevents the intrusion of water and therefore reduces soilability, without negatively affecting the water vapour permeability (sd-value).

Damage caused by the intrusion of water, such as exudation marks and frost damage, attack of algae, moss etc., will be effectively avoided by the use of Silsan[®] SR 300 conc..

Silsan[®] SR 300 conc. is suitable to be used with, among others, the following materials:

- brickwork
- roof tiles
- natural stone
- surfaces made of concrete or plaster
- surfaces made of asbestos cement

Application

For the water repellent impregnation of construction materials, Silsan[®] SR 300 conc. is diluted with solvents (e.g. White Spirit or Isoparaffines), according to its field of application, at a ratio of 1:10 to 1:20.

The ready-to-use solution can be applied by spraying, painting or flooding.

The application to slightly damp surfaces is also possible.

Manufacturing Process

The ready-to-use solution is manufactured as follows:

- 1.) Pour the solvent (White Spirit or Isoparaffines) into the container.
- 2.) Add Silsan® SR 300 conc. at the required dilution ratio (1:10 to 1:20).
- 3.) Stir well and fill the mixture into suitable containers.

Important note:

It is vital that no water is added to the solution. Even small quantities of water will cause a polymerization of the product, which will then render the product unusable.

Due to the easily flammable nature of the solvents used in the manufacturing process, appropriate safety precautions must be taken. (EX-protected production equipment etc.)

The readily manufactured solution can be poured into smaller, air-sealed containers and can be stored for approx. 6 months, provided they are properly protected from water entry.

As the readily manufactured solution is a hazardous good which contains solvents, the packages must be labeled and marked according to the precautionary measures required while handling the product.

Storage stability

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

The packages must be protected from the intrusion of water and air.

We recommend a storage temperature within a range of + 5 to + 25 °C.

In originally sealed containers, Silsan® SR 300 conc. may be stored for at least 9 months after the date of delivery.

For the readily manufactured solution we recommend you do not exceed a storage time of 9 months, under the same conditions.

ATTENTION:

It is absolutely vital that during storage of the ready-to-use solution, no moisture, neither in liquid form nor in form of air humidity can intrude the containers as this would lead to an immediate polymerisation and hardening of the product.

In this case the solution would become unfit for use.

Precautions:

For further information regarding the personal protective equipment (PPE) that must be worn during manufacturing of the dilution and during the application as well as safety precautions that must be arranged during transport and storage of the product please refer to the latest material safety data sheet.

Product properties of Silsan® SR 300 conc.

Properties	Value
Composition	mixture of silicone resins, organo-siloxanes and modified silanes
Appearance	clear to opaque liquid
Active content	approx. 100 %
Type of solvent	solvent-free
Solubility	soluble in solvents such as white spirit and isoparaffines; water insoluble
Flashpoint	> 23 °C
Viscosity (at 20°C)	< 50 cSt
Density (at 20°C)	approx. 0.9 g/ccm
pH value	n.a.
Packaging	plastic canisters, metal drums 180 kg
Storage stability (of Silsan® SR 300 conc.)	approx. 9 months at + 5 to + 25 °C
Storage stability (of the ready-to-use dilution)	approx. 6 months at + 5 to + 25 °C

Note:

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

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.