

Technical Data Sheet

Silsan[®] 1300

Silicone water repellent additive

Product description

Silsan[®] 1300 is a solvent-free, water repellent additive based on an amino-functional polysiloxane to be used as an additive in aqueous coating systems such as masonry paints and plasters.

The water repellent effect of the coating system is greatly increased and the absorption of water (w_{24} value) is reduced to a minimum without any negative effect on the water-vapour permeability (sd value).

When used together with the silicone resin binders Silsan[®] DSH or Silsan[®] HSB, the Silsan[®] 1300 acts as an intensifier of the water repellent effect of those binders.

Even though silicone resin binders provide very good water repellent effects by themselves, this effect can be further enhanced considerably by adding Silsan[®] 1300.

Silsan[®] 1300 is characterized by an especially hydrophobic emulsifier system with superior performance.

Silsan[®] 1300 is also suitable to be used as a water repellent additive for pure dispersion based paints and plasters as well as in silicate based coatings.

Silsan[®] 1300 is suitable to be used with the following masonry coating systems:

- silicone resin paints and plasters
- emulsion paints and plasters
- silicate emulsion paints and plasters
- interior paints
- siloxane paints
- filler pastes
- reinforcing filler pastes

Application

Silsan[®] 1300 has an active content of approx. 50 % and is added to the aqueous coating system undiluted during or after the production process.

The quantity of Silsan[®] 1300 required depends on the formulation of the coating system.

The following levels are recommended as a guideline:

Siloxane paints:	2.5 to 5.0 %
Silicone resin paints*:	0.7 to 1.5 %
Silicone resin plasters*:	0.7 to 1.5 %
*) in combination with silicon resin products	

(percentages as a share of total final mass)

Storage stability

The packages must not be exposed to direct sunlight.

Although the product is not frost-sensitive, we recommend a storage temperature within a range of + 5 to + 25 °C.

In originally sealed containers, Silsan® 1300 may be stored for a maximum of 9 months after the date of delivery.

Product properties of Silsan® 1300

Properties	Value
Composition	emulsion of an amino functional polysiloxane
Appearance	liquid, milky-white
Active content	approx. 50 %
Type of solvent	solvent-free
Solubility	water dilutable
Flashpoint	n.a.
Viscosity (at 20 °C)	< 50 cSt
Density (at 20 °C)	approx. 1.0 g/ccm
pH value	6,5 – 7,6
Packaging	plastic canisters, plastic drums*, IBC
Storage stability	maximum 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
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.