Chemical products for the
paint and construction industry

Partner für chemische und technologische Produkte

Technical Data Sheet

Silsan® CC 55

Silicone water repellent additive

Product description

Silsan® CC 55 is a solvent-free, water repellent additive based on a functional polysiloxane. It is used as an additive in aqueous coating systems such us 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).

Used with silicate and silicate emulsion based coatings, the sedimentation of the pigments is reduced.
Silsan® CC 55 is a micro-molecular emulsion which provides excellent water repellent properties.

Silsan® CC 55 is also especially suitable to be used as a water repellent additive for silicate and silicate emulsion based coatings such as:

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

Application

Silsan® CC 55 has an active content of 55 % and is added undiluted to the aqueous coating system during or after the production process. The quantity of Silsan® CC 55 required depends on the formulation of the coating system.

The following levels are recommended as a guideline:

Silicate emulsion paints:	0.7 to 1.5 %
Silicate emulsion plasters:	0.7 to 1.5 %

(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® CC 55 may be stored for a maximum of 9 months after the date of delivery.

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Product properties of Silsan® CC 55

Properties	Value
Composition	emulsion of a modified siloxane
Appearance	liquid, slightly opaque
Active content	approx. 55 %
Type of solvent	solvent-free
Solubility	water dilutable
Flashpoint	n.a.
Viscosity (at 20 °C)	< 200 cSt
Density (at 20 °C)	approx. 1.0 g/ccm
pH value	6,5 – 7,5
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.

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