

Technical Data Sheet

Silsan[®] P-KW

Silicone water repellent powder

Product description

Silsan[®] P-KW is a water wettable powder comprising a water repellent mixture of Silanes and Siloxanes.

Silsan[®] P-KW is suitable for enhancing the water repellency and water resistance of mineral, cement based construction materials, such as premixed plasters (especially based on cement and lime), joint mortars and powders.

It can be used in both dry powder and liquid coating systems. It can therefore also be used in the manufacturing of pastes such as fibre cement, mortars as well as plasters and other coatings.

Due to its water wettability, Silsan[®] P-KW exhibits an even, homogeneous mixing within the formulation.

The product exhibits the following properties:

- Very low water absorption combined with a high water vapour permeability
- Good beading effect on the surface
- Low soiling tendency
- Very good water solubility
- High efficiency at low quantities added
- Reliable, durable water repellency

Due to its good solubility in water, Silsan[®] P-KW blends homogeneously with the coating system.

In contrast to other water insoluble water repellent powder products, Silsan[®] P-KW eliminates the problem of powder bubbles forming due to inconsistent distribution within the coating system.

Silsan[®] P-KW is suitable to be used with the following coating systems:

- Mortars and adhesives based on cement and lime
- Mortars and adhesives based on silicates
- Mortars and adhesives based on synthetic resins
- Joint mortars
- Tile fillers
- Powdery paints

Application

Silsan[®] P-KW is added to the coatings during or after the manufacturing process.

The quantity of Silsan[®] P-KW required depends on the formulation of the coating system, whereby even small quantities can achieve very low water absorption and good durability.

A quantity of 0.1 – 0.2 % relative to the dry weight of the coating system can be used as a guideline.

After sufficient water has been added, the treated material can be stirred by hand or by machine.

Storage stability

The packages must not be exposed to direct sunlight or frost and should be stored within a temperature range of + 5 to +25 °C.

The product must be stored under dry conditions.

In originally sealed bags, Silsan® P-KW may be stored for a maximum of 12 months from the date of delivery.

Precautions:

For further information regarding the personal protective equipment (PPE) that must be worn during manufacturing and 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® P-KW

Properties	Value
Composition	silanes and polysiloxanes on a powder carrier
Appearance	white to light yellowish powder
Active content	n.a.
Solubility	water wettable
Flashpoint	n.a.
Viscosity (at 20 °C)	n.a.
pH value	approx. 10 (2 % solution in water)
Density (at 25 °C)	approx. 0.3 g/ccm
Packing	25 kg paper bags (one pallet = 20 x 25 kgs) 500 kgs
Storage stability	12 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.