

Silsan[®] MSR 6560-P

Silicone resin emulsion

Product description

Silsan[®] MSR 6560-P is a solvent-free emulsion of various silicone resins which offers high binding capabilities, extraordinary water repellent properties and superior weathering resistance. It is used as a co-binder in aqueous, breathable silicone resin coatings such as silicone resin paints and silicone resin plasters.

Silsan[®] MSR 6560-P is characterised by the formation of an especially inorganic, hard, robust and non-sticky film.

Typical characteristics are:

- High binding strength and longevity due to the formation of a 3-dimensional silicone resin structure.
- Superior weathering resistance as well as low soilability of the coatings made with this binder.
- Exceptional, long-lasting water repellent properties in combination with very good water vapour permeability.
- Extremely high silicon dioxide content of about 57%, related to the dry substance.
- Extremely high temperature resistance of the dry substance up to 600 °C with inflammable properties.

After the evaporation of its water content, Silsan[®] MSR 6560-P, unlike similar products available on the market, forms an extremely strong and non-adhesive silicone resin film.

Due to the typical resin character of the dried product, the soilability of the porous silicone resin coatings is minimized.

Furthermore, the wet-scrub resistance (tested according to DIN ISO 11998) is improved significantly.

The appropriate use of Silsan[®] MSR 6560-P in aqueous silicone resin coatings will provide high water vapour permeability (sd value < 0.1m), low water absorption (w_{24} value < 0.1 kg/m²√24h) as well as excellent early rain resistance.

The addition of 1-2 % of the water repellent additive Silsan[®] 1300 to the coating system will further enhance the early rain resistance as well as the water repellent properties, without having a negative effect on the water vapour permeability.

Application

Silsan[®] MSR 6560-P is used as a co-binder for the production of silicone resin paints and silicone resin plasters with a distinctive resin character.

The required quantity of Silsan[®] MSR 6560-P to be used depends on the formulation of the coating system.

The following levels are recommended as a guideline:

Silicone resin paints: 6 to 12%
Silicone resin plasters: 4 to 6%
(percentages as a share of total final mass)

Storage stability

The packages must not be exposed to direct sunlight and must be protected from heat.

If subjected to frost, the product will become unfit for use.

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

In originally sealed containers, Silsan[®] MSR 6560-P may be stored for at least 9 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.

Product properties of Silsan[®] MSR 6560-P

Properties	Value
Composition	emulsion of various silicone resins
Appearance	viscous, milky-opaque, fine dispersion
Active content	approx. 60 %
Type of solvent	solvent-free
Solubility	water dilutable
Flashpoint	n.a.
Viscosity (at 20 °C)	<100 mPas
Density (at 20 °C)	approx. 1,0 g/ccm
pH value	>6,0<8,5
Packaging	plastic canisters, plastic drums*, IBC
Storage stability	approx. 9 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
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.