

# Protectosil® 100 SK

High performance solvent-free ethoxy-functional oligomeric siloxane providing an excellent beading effect on mineral substrates

## Technical Data

Properties and test methods	Value	Unit	Method
Active ingredient content	100	%	-
Density (25 °C)	1.0 - 1.1	g/cm <sup>3</sup>	DIN 51757
Appearance	colourless/slightly turbid	-	-
Viscosity (at 25 °C)	40 - 100	mPa·s	DIN 53015

## Registration

Protectosil® 100 SK

EINECS/ELINCS (EU):	Yes
DSL/NDSL (Canada):	*
PICCS (Philippines):	Yes
TSCA (USA):	Yes
IECS (P.R. China):	*
ENCS (Japan):	*
ECL (South Korea):	*
AICS (Australia):	*
* = Information upon request	

High performance solvent-free ethoxy-functional oligomeric siloxane providing an excellent beading effect on mineral substrates, as well as outstanding water repellency.

Products formulated from Protectosil® 100 SK provide:

- Excellent beading effect
- Prevent the ingress of water and water soluble pollutants
- Normally no visible change of the surface appearance and virtually no reduction of vapour permeability
- Reduction of heat conductivity and thus improved thermal insulation
- Free of tin-organic catalysts
- High penetration depth (depending on active content)

## Safety and Handling

Before considering the use of Protectosil® products please read its Safety Data sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use. The Safety Data Sheet is available after registration on our website [www.protectosil.com](http://www.protectosil.com) or upon request from your local representative, customer service or from Evonik Resource Efficiency GmbH, Product Safety Department, E-MAIL [sds-hu@evonik.com](mailto:sds-hu@evonik.com).

## Packaging and Storage

Pallet à 760 l (4 x 190 l steel drums) or IBC à 952 l.

Protectosil® 100 SK may be stored in closed containers for at least 12 months, provided moisture is excluded and storage temperature does not exceed 35 °C.

## Properties and Use

Solvent-based masonry water repellents formulated from Protectosil® 100 SK are mainly used for:

- Impregnation of facades
- Barriers to prevent rising damp (DPC application)
- waterproofing of porous mineral building materials

## Application

Protectosil® 100 SK is normally applied as a solvent-based dilution. Depending on the application in question the active content may be adjusted from 5 - 50 %.

We recommend to use water-free aliphatic hydrocarbons with a boiling range from 130 to 200 °C and evaporation indices > 90 (DIN 53170) or ethanol for diluting.

It may take up to 7 - 10 days for the full water repellent performance to be built up.

All surfaces must be thoroughly cleaned and air-dried before treatment. Acceptable surface cleaning methods include sandblasting, water blasting and chemical cleaners.

During application, the outside temperature as well as substrate temperature should range between +5 and +40 °C. Protectosil® 100 SK should not be applied if there is a strong wind or if it is raining.

Protectosil 100 SK should be applied using low pressure pumping equipment with a wet fan type spray nozzle. Alternate methods include power roller with a 1" nap or by brush. Do not apply to a wet or damp substrate. On vertical surfaces apply the Protectosil 100 SK in a flooding application, so that the material runs down 6 to 8 inches (15-20 cm) below the spray pattern. On horizontal surfaces the liquid material should pond on the surface at least 5 seconds before being absorbed. All equipment and containers must be clean and dry. After use, they can be cleaned with any organic solvent (methylated spirit or petrol). The material must not be atomized.

In order to reach the recommended consumption rates it may be necessary to apply the material using multiple applications steps. It is recommended to let the surface dry between the application steps.

Non-absorbent substrates such as window frames, window sills, plastic fittings, window glass, etc., should be covered before application. Surfaces which accidentally come into contact with Protectosil 100 SK can be cleaned with alcohol (spirit) or aqueous soap solution. Cleaning should be carried out as quickly as possible (within a few hours), otherwise formation of a silicone resin film can make cleaning more difficult. Silicone resin films are best removed using ethanol (or spirit). Plant life should be protected from overspray.

Protectosil 100 SK reacts with the interfaces in pores and capillaries of the mineral surface and forms invisible, water-repellent interfacial compounds. To determine the exact amount to be applied and to check weather previous or following treatments are compatible with the Protectosil 100 SK treatment it is recommended to do a small test patch first.

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