

# SILRES<sup>®</sup> BS SMK 550



## Silane-Siloxane mixtures

SILRES<sup>®</sup> BS SMK 550 is a solventless silicone microemulsion concentrate based on silanes and siloxanes that is diluted with water to yield microemulsions. Such dilute aqueous solutions serve as chemical damp-proofing agents. The WTA has certified the suitability of SILRES<sup>®</sup> BS SMK 550 for this application.

## Properties

- solventless silicone microemulsion concentrate
- dilutable simply by pouring into drinking water
- ready-to-use silicone microemulsions which have been activated with water must be used up on the day of dilution

Advantages over ready-to-use products:

- lower packaging costs
- fewer problems with empty containers
- disposal (15 times less packaging)
- lower storage and transport costs

# Technical data

## General Characteristics

Property	Condition	Value	Method
Appearance	-	clear	-
Color	-	yellowish to red-brown	-
Silane-/Siloxane content	-	approx. 100 %	-

These figures are only intended as a guide and should not be used in preparing specifications.

All the information provided is in accordance with the present state of our knowledge. Nonetheless, we disclaim any warranty or liability whatsoever and reserve the right, at any time, to effect technical alterations. The information provided, as well as the product's fitness for an intended application, should be checked by the buyer in preliminary trials. Contractual terms and conditions always take precedence. This disclaimer of warranty and liability also applies particularly in foreign countries with respect to third parties' rights.

## Applications

- Construction Materials
- Masonry Dampproofing

## Application details

Diluted with water - we recommend pouring SILRES® BS SMK 550 into water - SILRES® BS SMK 550 is injected under the effects of pressure via drilled holes to combat rising damp in masonry. The aim is to completely saturate the masonry in the injection zone. Pressure injection is usually preferred for high levels of damp.

### Processing

The ready-to-use dilution of SILRES® BS SMK 550 is injected into the stone / brickwork via holes. The holes are usually drilled at ground level (outside) or at floor level (inside). The distance between them depends on the absorbency of the construction material. 10 to 12 cm is usually sufficient for homogeneous masonry.

All holes should be approx. 5 cm shorter than the thickness of the masonry and they must be cleaned of dust before injection.

Pressure injection is the best method of treating high levels of rising damp. Packers are inserted into the holes and the silicone microemulsion is forced through at a pressure of preferably 2 - 5 bar. Cavities in inhomogeneous masonry should be filled with a cement slurry before.

Very high levels of damp may be treated by activating the silicone microemulsion with blends of alkaline products or pure silicates after 1 - 2 days. The active agents (alkylsilicates) are deposited immediately and the result is faster, better build-up of the horizontal damp course.

The masonry in the injection zone must be completely saturated with the microemulsion in order for the damp course to be fully functional. This is achieved by allowing sufficient time for injection (5 to 10 minutes for pressure injection).

For injection, we recommend diluting SILRES® BS SMK 550 with drinking water in the ratio of 1 : 9. Only as much of the product as can be used on the same day should be prepared.

## Packaging and storage

### Storage

The 'Best use before end' date of each batch is shown on the product label.

Storage beyond the date specified on the label does not necessarily mean that the product is no longer usable. In this case however, the properties required for the intended use must be checked for quality assurance reasons.

### Safety notes

Comprehensive instructions are given in the corresponding Material Safety Data Sheets. They are available on request from WACKER subsidiaries or may be printed via WACKER web site <http://www.wacker.com>.

### QR Code SILRES® BS SMK 550



### For technical, quality or product safety questions, please contact:

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