

KORATECT® LO-PF

Brief description **KORATECT® LO-PF** is a 75 % solution of a higher alkylated alkoxy siloxane in mineral spirits (xylene and butanol).

Product properties **KORATECT® LO-PF** is a modified form of **KORATECT® LO-N** with improved beading effect on freshly impregnated surfaces. The low molecular weight of the form in which the product is supplied produces impregnation with high penetration depth and it can also be applied on slightly wet building materials. The high alkali resistance of the product allows it to be used also on building materials with increased alkalinity, such as fresh concrete, plaster, limestone, fibre cement and aerated concrete. In addition, all other porous building materials such as bricks, natural and artificial stones and mineral paints can be effectively waterproofed.

Finishing **KORATECT® LO-PF** is not suitable as a waterproofing agent in the form it is supplied. It must be diluted. Suitable solvents are anhydrous, aliphatic or aromatic hydrocarbons, as well as anhydrous alcohols. The solubility and shelf life in mild-scented, non-aromatic solvents are very good. Well-suited solvents are for example:

Exxsol D 30, D 40, D 60, Isopar G, L (Esso Chemie)
Shellsol T (Shell Chemie)
EC-Solvent 160/200 (EC-Erdölchemie GmbH).

We recommend an active siloxane content of about 6 % (w/w) in the ready-to-use impregnation solution. This concentration is achieved by the following dilution:

1 part by weight	KORATECT® LO-PF
9 parts by weight	Solvent

This equals approximately

1 part by volume	KORATECT® LO-PF
11 to 12 parts by volume	Solvent

Depending on the specific weight of the solvent used.

The ready-to-use impregnating agent can be applied in one or more stages on the dry and absorbent building materials, while all the time observing liberal and uniform impregnation, with the second coat applied "wet on wet". Flooding impregnation by means of spraying is recommended for large surface areas. Brushing or immersion of different building materials is also possible. Adjoining surfaces, e.g. windows, doors and non-absorbent trim elements should be protected by covering them against the impregnation solution. The absorbency of the building material determines the rate of consumption of the impregnation solution. Practical use values are 0.1 to 1 L/m².

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1 litre of ready-to-use solution has the following impregnation coverage in the specified building materials:

Fibre cement	10.0 to 15.0 m ²
Concrete	3.0 to 5.0 m ²
Limestone	2.0 to 3.0 m ²
Plaster	1.5 to 2.5 m ²
Bricks	1.5 to 2.5 m ²
Aerated concrete	1.0 m ²

It is recommended to use special test surface areas to determine the suitability and effectiveness of the impregnation solution as well as the exact rate of consumption.

Safety instructions

Due to the solvent content, the relevant regulations for the handling of products containing solvents must be observed.

Product information*

Appearance	: colourless, slightly cloudy
Siloxane content after hydrolysis in % (w/w)	: approx. 61
Density at 20 °C in g/cm ³	: approx. 1.02
Colour index	: max. 4
Viscosity at 23 °C in mPa•s	: approx. 30
Flash point in °C	: approx. 32

Shelf life

12 months in the form it is supplied. **KORATECT® LO-PF** reacts with moisture and must therefore be well sealed when stored. Experience has shown that properly diluted material has a longer shelf life.

If the product is stored for longer than the date or period specified on the label, it does not necessarily mean that the product is unfit for use. In this case a review of the property values required for the intended use is essential for reasons of quality assurance.

Further information on product safety and handling is given in the Material Safety Data Sheet.

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*Informative properties not intended to be used as product specification

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