

## KORASILON® Hydrophobiermittel FF

<b>Short description</b>	<b>KORASILON® Hydrophobiermittel FF</b> are microemulsions based on amino-modified siloxanes and special additives.
<b>Product properties</b>	<p><b>KORASILON® Hydrophobiermittel FF</b> are excellently suited for hydrophobing a wide variety of materials, such as textiles, filter fabrics, leather, wood, cork, paper, stone and other substrates. In this process, the impregnation achieves a pronounced hydrophobicity without impairing the breathability of the materials. In addition, certain advantages can be observed in terms of oleophobicity of treated goods.</p> <p><b>KORASILON® Hydrophobiermittel FF</b> are completely fluorine-free and do not contain any partially fluorinated or perfluorinated compounds, like other commercially available impregnating agents. The products are water-miscible and non-ionic, so they can be incorporated into appropriate aqueous formulations or diluted with water. They are also characterized by universal applicability, good substrate adhesion and permanence on a wide range of materials.</p> <p><b>KORASILON® Hydrophobiermittel FF 2</b> has an active content of approx. 18% and is therefore characterised by a good cost effectiveness.</p> <p><b>KORASILON® Hydrophobiermittel FF 3</b> has an active content of approx. 10% and contains additional special additives, which optimise the oleophobic effect especially on mineral substrates. Furthermore, this type shows stronger crosslinking and a more persistent substantivity.</p>
<b>Application</b>	<p><b>KORASILON® Hydrophobiermittel FF</b> are diluted with water to an active content of approx. 0.5 % to 5 %. The application to the substrates can be carried out by various methods, such as dipping, spraying, washing (see below) or padding.</p> <p>The slightly acid pH-value of the products (pH-value: 4 to 5) can be maintained even in dilutions; adjustment is possible by adding acetic acid.</p> <p>For washing impregnation of textiles, it is recommended to use <b>KORASILON® Hydrophobiermittel FF 2</b> instead of fabric softener. In this case, approx. 150 g of <b>KORASILON® Hydrophobiermittel FF 2</b> are required to impregnate 5 kg of laundry.</p>
<b>Safety instructions</b>	<p>No test data on inhalation toxicity are available for the products. In order to exclude relevant aerosol exposure when using <b>KORASILON® Hydrophobiermittel FF</b> in an impregnation spray formulation, it must be ensured that the aerosol occurring during application meets the following conditions:</p> <p>Mean aerodynamic diameter (MMAD) <math>\geq 30 \mu\text{m}</math>; proportion of particles below <math>10 \mu\text{m} \leq 1 \%</math> (SEHC Aerosol Inhalation Guidance, <a href="http://www.sehsc.com/science.asp">www.sehsc.com/science.asp</a>).</p>
<b>Miscellaneous</b>	<p><b>KORASILON® Hydrophobiermittel FF</b> are manufactured without fluorine-containing substances and does not contain any fluorinated substances or metal catalysts for crosslinking. They are therefore an excellent alternative to conventional hydrophobing agents based on perfluorocarbon resins (PFC) or metal-crosslinked siloxane systems. Further information on the regulatory status can be provided on request.</p>

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### Storage

**KORASILON® Hydrophobiermittel FF** have a shelf life of **6** months after date of manufacturing when correctly stored in its original unopened container at storage temperatures between **+5 °C** and **+40 °C**.

Storage beyond to the period indicated on the product label does not automatically mean that the product is unusable. However, an inspection of the property values necessary for the intended use is essential due to quality assurance reasons.

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

This information and our technical advice – whether verbal, in writing or by way of trials – are given in good faith but without warranty, and this also applies where proprietary rights of third parties are involved. Our advice does not release you from the obligation to check its validity and to test our products as to their suitability for the intended processes and uses. The application, use and processing of our products and the products manufactured by you on the basis of our technical advice are beyond our control and, therefore, entirely your own responsibility. Our products are sold in accordance with our General Conditions of Sale and Delivery; this is not valid for our trial products

\*Informative properties not intended to be used as product specification

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