

KORATECT® KMS-A2

Short description	Aqueous potassium methyl silicate solution for the use as impregnating agent.	
Product properties	<p>KORATECT® KMS-A2 is mainly used for the factory-made impregnation of clay brick products, roof tiles, flower pots, clay pots as well as floor tiles. Furthermore, the product is suitable for impregnating of pore concrete, plasterboards and gypsum fibreboards, light filler materials or insulation materials.</p> <p>Nowadays – for the only use in the area of facade impregnations – methyl siliconates are not important any more but, however, the pore consolidating effect of the methyl siliconates can be applied partially profitably in the area of primers.</p>	
Application	<p>In the delivered form, KORATECT® KMS-A2 is unsuitable as hydrophobizing agent. It has to be diluted with tap water. At a water hardness of more than 20 °dH (German hardness), precipitations may occur. The processing concentration depends on the type of processing. Typical processing concentrations vary between 1 vol-part KORATECT® KMS-A2 and 10 to 150 vol-parts water.</p> <p>The immersion process is a well-suited impregnation method for clay brick products. The absorbency of the building materials determines the dipping period in the immersion bath. Typically the dipping time is in the range of 15 to 60 sec. The optimal concentration and immersion time should be identified by preliminary trials. It should be considered that alkali solutions such as the dilutions of KORATECT® KMS-A2 absorb easily carbon dioxide from the air and therefore, its activity can be derogated. Especially on low absorbent, dark undergrounds, the application of this product can lead to the appearance of white stains. In any case, the repeated impregnation with KORATECT® KMS-A2 should be avoided, since otherwise, slightly white accumulations may appear on the surface of the building materials.</p> <p>KORATECT® KMS-A2 reacts with carbon dioxide from the air and becomes water-insoluble after about 24 hours. Fresh impregnations with KORATECT® KMS-A2 are therefore to be protected against rain. A sufficient drying of the product is typically recognizable by the beginning beading effect.</p>	
Safety reference	<p>KORATECT® KMS-A2 contains potassium hydroxide. The delivery form and also its ready-to-use solutions react basically. Therefore, eyes, skin, clothes and all surfaces not intended for impregnation should be protected against splashes. Aluminium and glass may be etched slightly. Wash away immediately eventual splashes.</p>	
Technical data*	Appearance	: colourless, clear
	Dry residue in % (w/w)	: approx. 54
	Active substance content in % (w/w)	: approx. 34
	Density at 20 °C in g/cm ³	: approx. 1.4
	pH-value	: approx. 13

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Storage

Between +5 °C and +40 °C and airtight conditions, **KORATECT® KMS-A2** and diluted solutions can be stored for at least **24** months. Storage beyond to the period indicated on the product label does not necessarily mean that the product is unusable. However, an inspection of the property values necessary for the intended use is essential for quality assurance reasons.

After partial product removal the containers have to be closed immediately, as by exposure to carbon dioxide contained in the air, a clouding of the product occurs.

Lead, zinc, stannous and aluminium are affected by the solutions. Therefore, containers made from leaded, zinc-plated or tin-plated iron are not suitable for storage of these solutions.

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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