KORATECT® KMS-A

Brief description

KORATECT® KMS-A is an aqueous potassium methyl siliconate solution.

Product properties

KORATECT® KMS-A is mainly used for factory impregnation of brick products. Nowadays, the use of methyl siliconates is not limited to the impregnation of facades; however, the pore-solidifying effect of the methyl siliconates can partially be used advantageously in the area of primers.

KORATECT® KMS-A reacts with carbon dioxide from the air to be insoluble in water after approximately 24 hours. Surfaces freshly impregnated with **KORATECT® KMS-A** must therefore be protected from the rain. Adequate drying of the product can usually be identified by the onset of water repellency. The use of this product can lead to the formation of white spots, particularly on low-absorption, dark surfaces. Repeated impregnation with **KORATECT® KMS-A** must be avoided at all costs, otherwise whitish deposits can easily form on the surface of building materials.

Finishing

KORATECT® KMS-A is not suitable as a waterproofing agent in the form it is supplied. It must be diluted with tap water. Precipitation can occur if the hardness of the water exceeds 20 °dH. The finishing concentration depends on the finishing. The usual dilution ratios vary from 1 part by volume **KORATECT® KMS-A** and 10 to 150 parts by volume water. Immersion is well suited as impregnation method for brick products. The absorbency of the building materials determines the residence time in the immersion bath. It can be between 15 and 60 seconds. The optimal concentration and immersion time should be determined by preliminary tests. It should be noted that alkaline solutions such as diluted **KORATECT® KMS-A** readily absorb carbon dioxide from the air and this can affect their activity.

Safety instructions

KORATECT® KMS-A contains potassium hydroxide. The form it is supplied in as well as the finished solutions made from it have an alkaline reaction. Eyes, skin, clothing and surfaces not to be waterproofed must therefore be protected against splatter. Aluminium and glass can be etched by it. Immediately rinse off any splatter with lots of water.

Product information*

Appearance	: colourless, clear
Dry residue in % (w/w)	: approx. 47
Active substance content in % (w/w)	: approx. 28
Density at 20 °C in g/cm³	: approx. 1.35
pH value	: approx. 13

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Storage

Between +**5** °C and +**40** °C and sealed air tight, **KORATECT® KMS-A** and diluted solutions can be stored for at least 24 months. Containers must be sealed again immediately after the solution has been decanted, as it can become cloudy through exposure to the carbon dioxide in the air. Lead, zinc, tin and aluminium are attacked by the solutions. Containers made of leaded, galvanised or tinned iron (tinplate) and aluminium are therefore not suitable for storing the solutions.

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.

*Informative properties not intended to be used as product specification

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