

KORATECT® EA3

Short description **KORATECT® EA3** is a water-thinnable, solventless emulsion, based on a mixture of silane and siloxane.

Product properties Diluted solutions of **KORATECT® EA3** can be used as high quality, general-purpose water repellents for impregnating and priming mineral surfaces. **KORATECT® EA3** can be combined with polymer based primers for substrate consolidation. In addition, **KORATECT® EA3** is suitable for mass hydrophobization

KORATECT® EA3 emulsion contains a stabilized mixture of silanes and siloxanes that are susceptible to hydrolysis. Hydrolysis takes place only after application to the substrate. Ethanol is released and the emulsion converts into a silicone resin water repellent. **KORATECT® EA3** reduces the capillary absorption of the building which it has penetrated, but does not clog pores or capillaries. Therefore only little or no impairment of the building material's ability to "breathe" occurs.

Features:

- good depth of penetration
- resistance to alkalis
- rapid development of water repellency
- provides good adhesion for paints
- water-based and environmentally compatible
- stable in storage, even when diluted

Application Dilute **KORATECT® EA3** is an excellent water repellent for many absorbent mineral substrates such as bricks, sand-lime brick, natural sandstone and mineral plasters. It is not so suitable for less or none absorbent dense natural stone, especially limestone, marble and reinforced concrete for bridges and roads. Due to its aqueous consistency and storage stability when diluted, **KORATECT® EA3** is ideal for in-plant impregnation of building materials made of clay, aerated concrete, sand-lime brick, fibrous cement, mineral fibers and lightweight aggregate. **KORATECT® EA3** may also serve as a water-repellent primer for emulsion paints and plasters, silicone resin emulsion paints and silicone resin plasters as well as for concrete coatings.

To dilute **KORATECT® EA3** for use as facade water repellent primer, tap water is suitable. We recommend an active content of 5% to 10% (dilute the product in the ratio 1:4 to 1:9), the exact value depends on how absorbent the substrate is. Apply the ready-to-use solution in the usual way; flooding is the preferred way. Two "wet on wet" coats are needed to ensure complete coverage. If it starts to rain, stop treatment and cover the impregnated areas.

For mass hydrophobization, we recommend 0.5 % (w/w) **KORATECT® EA3** by weight of cement.

Product data*	Appearance	: milky, white
	Active content in %	: approx. 50 %
	Viscosity at 25 °C in mPa s	: approx. 12 mPa s
	Density at 20 °C in g/mL	: 0.95

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Storage

KORATECT[®] EA3 has a shelf life of **12** 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.

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*Informative properties not intended to be used as product specification

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