



## WATER REPELLENT PRODUCTS

**KEIM Lotexan/N** - KEIM Lotexan is a clear, siloxane based water repellent and dust suppressant treatment for use on alkaline mineral substrates such as concrete, render and brickwork.

When applied onto mineral surfaces, KEIM Lotexan soaks into the substrate and, having a small molecular size, coats the pores of the mineral structure without blocking them. A chemical reaction takes place, creating the water shedding properties of the siloxane, imparting excellent water repellence while maintaining moisture vapour permeability through the open pores.

KEIM Lotexan N is a dedicated generic variant of KEIM Lotexan for mineral substrates which have a lower alkalinity, such as weathered natural stone.

**KEIM Ecotec** - KEIM Ecotec is an environmentally friendly, solvent free, colourless water repellent and dust suppressant. KEIM Ecotec is a concentrated hydro-phobing silicone micro-emulsion, diluted with water, which reduces water absorption.

**KEIM Silan 100** - KEIM Silan 100 is used to provide a water repellent finish on mineral building materials, in particular concrete.

KEIM Silan 100 is ideal where surfaces are exposed to de-icing salts and to protect reinforcing steel from chloride corrosion due to salt penetration. KEIM Silan 100 can be used as a priming coat prior to subsequent applications of KEIM Mineral Paint systems, or as a stand-alone water repellent finish.

# WATER REPELLENT TECHNICAL INFORMATION

Product	KEIM Lotexan/N	KEIM Ecotec	KEIM Silan 100
<b>1. Field of Application</b>	KEIM Lotexan/N are siloxane based water repellent impregnations to reduce the water absorption of mineral surfaces. Also used as dust suppressants.	KEIM Ecotec is a solvent free, silicone micro-emulsion based hydrocarbon concentrate for use as an environmentally friendly water repellent and dust suppressant.	KEIM Silan 100 is a solvent free, silane-based water repellent for use on all mineral substrates, particularly suitable for concrete, where carbonation resistance is required.
<b>2. Product Properties</b>	<ul style="list-style-type: none"> <li>• Water vapour permeable</li> <li>• Does not change substrate colour</li> <li>• Long life performance</li> <li>• KEIM Lotexan for alkaline substrates</li> <li>• KEIM Lotexan N for natural stone</li> </ul> <p>Water absorption coefficient: <math>w &lt; 0.05 \text{ kg/m}^2 \text{ h}^{0.5}</math></p>	<ul style="list-style-type: none"> <li>• Water vapour permeable</li> <li>• Does not change substrate colour</li> <li>• Environmentally friendly</li> <li>• Low VOC</li> <li>• Solvent free, dilute with water</li> </ul> <p>Water absorption coefficient: <math>w &lt; 0.05 \text{ kg/m}^2 \text{ h}^{0.5}</math></p>	<ul style="list-style-type: none"> <li>• Water vapour permeable</li> <li>• Does not change substrate colour</li> <li>• Solvent free</li> <li>• Ideal for concrete, protects against chloride corrosion and de-icing salts</li> <li>• Can also be used as a priming coat under KEIM paint systems</li> </ul> <p>Water absorption coefficient: <math>w &lt; 0.06 \text{ kg/m}^2 \text{ h}^{0.5}</math></p>
<b>3. Application Instructions (onto clean dry surfaces)</b>	KEIM Lotexan/N should be applied as a two coat system, by low pressure spray or brush, with a period of approximately 10 minutes between coats.	KEIM Ecotec should be mixed to a ratio of 1:9 with water (1 part KEIM Ecotec to 9 parts water). Applied with low pressure spray as a flood coat, or saturated with a brush from top to bottom.	KEIM Silan 100 should be applied as two wet-on-wet flood coats or as a single flood coat, by brush or low-pressure spray.
<b>Cleaning of tools</b>	Clean immediately after use with solvent.	Clean immediately after use with water.	Clean immediately after use with water.
<b>Consumption*</b>	0.4lt/m <sup>2</sup> for two coats as a water repellent.	Dependant on the capillary absorbency of surface, between 0.2lt/m <sup>2</sup> and 0.8lt/m <sup>2</sup> (premixed). The proportion of KEIM Ecotec equates to 0.02lt/m <sup>2</sup> - 0.08lt/m <sup>2</sup> .	0.2lt/m <sup>2</sup> for one coat, 0.3lt/m <sup>2</sup> for two coats.
<b>Packaging</b>	5 lt containers	1 lt container	5 lt containers

\*Please note all consumption rates given in the technical information section are offered for guideline purposes and are quoted for smooth surfaces. Actual rates are the responsibility of the applicator. Project specifications should be referred to for specific rates.