

## KORATECT<sup>®</sup> Bulk impregnation

### Short description

Silan/Siloxane based products as specialized impregnating agents for concrete systems

### Product properties

In the range of **KORATECT<sup>®</sup> - products** there are some products which are suitable not only for the after-treatment of concrete, but can be directly added to the concrete mixture. This way a complete permeation of the concrete with the impregnating agent can be achieved, leading to an even better long term durability. Furthermore a costly and time consuming after-treatment can be avoided.

The use of those additives leads to a significant reduction of efflorescence in combination with a significant reduction of water and chloride adsorption. Furthermore the freeze-thaw resistance is improved and it was observed that problems with shrinkage cracks are lowered.

Under favourable conditions even the growth of moss or algae on the concrete surface is lowered significantly.

### Application

Under technical conditions the impregnating agent is added directly into the mixing water to achieve an optimal product distribution. Alternatively products with 100 % active content might be sprayed directly onto the dry mixture or its components as e.g. on the sand fraction.

The dosage mentioned below might be used as start-up values but the dosage should be determined by individual test. The dosage is given with reference to the dry part (cement + sand) of the concrete mixture.

Product	Form	Aktiv	Dosage
KORATECT <sup>®</sup> SL-4	Liquid	100 %	0,1 %
KORATECT <sup>®</sup> SL-2	Liquid	100 %	0,1 %
KORATECT <sup>®</sup> EA-6	Liquid	60 %	0,2 %

## KORATECT® Bulk impregnation

**Without impregnation**



Uneven, splotchy colour impression, shrinking cracks in the range of the necking, age approx. 2 months

**With bulk impregnation**



Homogeneous colour impression, no cracks in the range of the necking, age approx 2 months

**Without impregnation**



Uneven, splotchy colour impression, shrinking cracks in the range of the necking, lower part of the column destroyed completely, age approx. 12 months

**With bulk impregnation**



Homogeneous colour impression, no cracks in the range of the necking, no spalling of flaking of the surface, age approx 12 months

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