

KORATECT® C 1 System

Brief description

EN 1504-2/ DIN V 18026

Products and systems for the protection and repair of concrete structures – OS 1 surface protection systems for concrete, waterproofing impregnation.



EU labelling

CE	
0921	
Kurt Obermeier GmbH & Co. KG D-57319 Bad Berleburg, Germany	
07	
0921 – BPR - 2020	
EN 1504 - 2	
Surface protection product	
KORATECT® C 1	
Waterproofing impregnation	
Penetration depth	Class II: ≥ 10 mm
Water absorption and alkali resistance	Absorption coefficient < 7.5% compared with untreated sample < 10% in alkaline solution
Drying rate	Class I: > 30 %
Mass loss after freeze-thaw cyclic loading	Mass loss min. of 20 cycles later than in non impregnated sample
Hazardous substances	Conformity with EN 1504-2, 5.3

Product properties

Compared to conventional liquid products, **KORATECT® C 1** is characterised by its thixotropic consistency as waterproofing. Hence, the impregnating paste can conveniently be applied in the desired coating thickness, without the risk of uncontrolled dripping of the product. Multiple applications are also possible in order to increase the penetration depth of the product. The silane-based active substance combination usually penetrates the building material, where the active substance is polymerised by a chemical reaction with the elimination of ethanol and so fixed permanently. The milky-white cream disappears without leaving any residue. The breathability of the building material is not adversely affected by the special active substance. In poorly absorbent substrates, this process can last several hours.

KORATECT® C 1 was designed such that it can achieve deeper diffusion due to its small molecular size. This has a particularly positive effect on specific parameters such as freeze/thaw resistance. The uptake of salts (in particular of de-icing salts) or the formation of efflorescence is significantly reduced. **KORATECT® C 1** also greatly reduces corrosion processes in steel-reinforced concrete. On sufficiently absorbent substrates **KORATECT® C 1** forms virtually no residue on the surface of the building material and is therefore also suitable as a deep primer for paints and plasters.

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Unlike traditional masonry protection agents, **KORATECT® C 1** shows no pronounced beading effect.

KORATECT® C 1 should not come into direct contact with bitumen. The resistance of insulation against **KORATECT® C 1** must be checked in each particular case depending on the temperature.

Information on implementation

acc. to DIN V 18026, Annex A

Information on implementation acc. to Sheet 1¹⁾

1 General	
Manufacturer	Kurt Obermeier GmbH & Co. KG
System designation	KORATECT® C 1 System Waterproofing impregnation
2 Substances	
KORATECT C 1	
Supplied form	Ready-to-use, pasty
Shelf life	365 days from date of production
Storage conditions	Refer to safety data sheets
Safety/environment/ occupational safety/disposal	Refer to safety data sheets
3 Implementation	
- Preparing the substrate	Refer to repair guidelines, sections 2 and 3
- Additional requirement	None
- System structure / product name	KORATECT® C 1
- Mixing ratio	Not applicable
- Dry film thickness min.	Not applicable, not film-forming
- Application method	Roller, brush, putty knife, airless spraying
- Film thickness addition	Not applicable, not film-forming
- Nominal dry film thickness	Not applicable, not film-forming
- Associated material consumption	0.4 kg/m ²
- Dry film thickness	Not applicable, not film-forming
- Mixing	Not applicable
- Container workability at 10 / 30 °C	Not applicable
- Temperature of the substrate / the air	5–30 °C / 5–30 °C
- Relative air humidity	Max. 75%
- Moisture content of the substrate	Maximum concrete residual moisture: 3.0% (w/w)
- Waiting time until rainproof 10 / 30 °C	Minimum of 24 hours
- Waiting times until next step	Not applicable, single-layer structure
- Waiting time until testing the impregnation quality	14 days (acc. to ZTV-ING, Part 3, Section 4, Point 8.5 and Annex C)
- Weather protection / after-treatment	Cover during rain

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4 <u>Characteristic values¹⁾</u>	
Volatile and non-volatile components	Not determined
Density / bulk density	0.902 g/cm ³
Flow time	Not determined
Viscosity at 10 °C / 30 °C	Not determined / not determined
Consistency	Not determined
Content of air in %	Not determined
Bulk density	Not determined

Supplementary information ZTV-ING Part 3, Section 4, Point 8.4.5 must be observed

Shelf life Sealed in its original container and at storage temperatures between +0 °C and +30 °C, **KORATECT® C 1** has a shelf life of 12 months.

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.

For more information on product safety and handling, please refer to the safety data sheet.

Our technical advice whether spoken, written or through test trials is given to the best of our knowledge, is to be understood as non-binding in character and in relation to any possible industrial property rights of third parties; it is not a substitute for your, the buyer's, own tests and trials on the products supplied by us to determine whether they are suitable for the intended processes and purposes. The application, use and processing of the products are beyond our control and, therefore, entirely your own responsibility. In the event that a liability is nevertheless considered, any compensation will be limited to the value of the goods supplied by us and used by you. Of course, we guarantee the perfect quality of our products according to our general terms and conditions.

*This information is intended as a guide and should not be used in preparing specifications

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