

ConProtect All-time

Efficient water repellent impregnator (can be installed at -10 °C)

PRODUCT DESCRIPTION

ConProtect All-time is water repellent impregnation for **concrete, clinker masonry, and ceramic tiles**. Protection of mineral surfaces based on NANO technology. Protects mineral surfaces against the ingress of water and water-soluble pollutants.

TYPICAL APPLICATIONS

ConProtect All-time is suitable for the water repellent impregnation of mineral substrates.

- Especially suited for the water repellent impregnation of mineral construction materials in outdoor areas.
- Especially suited for use on cast-in-place, precast, glass fiber reinforced concrete (GFRG) and high-strength concrete, to protect the material against water, deicing salts and other waterborne contaminants.
- Alleviates deterioration of concrete due to alkali-silica reactivity.
- For use on bridge decks where fast drying is needed to minimize lane closures.
- For treating heavy traffic wearing surfaces or areas that receive high salt concentrations (piers, coastal buildings), to provide a high-performance, long-lasting chloride screen.

BENEFITS & ADVANTAGES

- 99-100% active content
- Excellent reduction of water uptake
- Excellent resistance to chloride ion ingress
- High resistance to alkaline environments
- Deep penetration into dense substrates
- Preservation of water vapor permeability
- No change of surface appearance
- Enhanced durability
- Protection of hairline cracks of up to 0.3mm
- Good adhesion of coatings and paints
- Conforms to the EN 1504-2
- Excellent performance on wearing surfaces
- Applicable on new, old and carbonated concrete
- Quick dry time after application (~1hour)
- During application the outside temperature and the temperature of the substrate can be within the range of -10°C to 40°C.

HANDLING & PROCESSING

Concrete must be allowed to cure for a minimum of 28 days. Concrete repair and replacement must be completed prior to application of ConProtect All-time. Patching materials, caulking, sealing materials and traffic paint must be fully cured before applying ConProtect All-time. All surfaces should be air-dry and clean in order to ensure deep penetration of the active ingredient. Cleaning is required to remove dirt, dust, efflorescence, mold, salt, grease, oil, asphalt, laitance, curing compounds, paint, coatings as well as other foreign materials. Acceptable surface cleaning methods include shotblasting, sandblasting, water blasting and using chemical cleaners. During application the outside temperature and the temperature of the substrate should be within the range of -10°C to 40°C. ConProtect All-time should not come into contact with water before or during application and should not be applied if there is strong wind or if it is raining.

ConProtect All-time should be cured for 5 days before an additional surface protection treatment such as ConProtect Graffiti is applied.

ConProtect All-time must be applied by flow coating to the saturation point. This is achieved by allowing it to flow without pressure against the surface to be treated. All delivery devices for liquids are suitable (e.g. airless spray guns). The material must not be atomized or applied with a brush. Do not alter or dilute the material. Do not apply to a wet or damp substrate. ConProtect All-time reacts with the interfaces in pores and capillaries of the mineral surface and forms invisible, water repellent interfacial compounds. To determine the exact amount to be applied and to check weather previous or following treatments are compatible with the ConProtect All-time treatment it is recommended to do a small test patch first.

ConProtect All-time should not come into contact with asphalt as it would dissolve. Non-absorbent substrates such as, e.g. glass, wood, plastic, and metal cannot be treated with ConProtect All-time. Glass, wood, and metal are not attacked by ConProtect All-time. Neither are most plastics used in construction. Therefore, covering is normally not necessary. In order to make sure it is recommended to carry out a test prior to the application. At the worst, product not absorbed by the substrate may react with atmospheric moisture to form a greasy, glossy silicone resin film, which can easily be removed if cleaned immediately using conventional cleaning agents or alcohol (check for compatibility of the solvent with the surface). Plants in the vicinity of the substrate to be treated should be protected against contact with ConProtect All-time.



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DOSAGE

ConProtect All-time is to be used undiluted.

The amount of ConProtect All-time to be applied and to be used are highly depending on the absorbency of the substrate and the desired penetration depth.

On vertical surfaces ConProtect All-time is applied in a flooding application from the top down, so the material runs down 30-50 cm in a shiny curtain below the spray pattern. On horizontal surfaces a liquid film of ConProtect All-time must remain in contact with the substrate for several seconds. The surface should have a shiny, wet appearance for at least 3-5 seconds.

CONSUMPTION

Suitable Substrates	Approximate Consumption	Application Method:
Concrete	: Min. 150 g/m ²	Low pressure pumping
Clinker masonry	: Min. 150 g/m ²	Low pressure pumping
Ceramic tiles	: Min. 100 g/m ²	Low pressure pumping

PACKAGING

ConProtect All-time (liquid) is available in 900 L IBC containers. At the customer's request, it can also be packaged in other containers, such as 25 L, 10L, 5L or 3 L canisters.

SHELF LIFE

The product has a shelf life of at least 12 months when stored in originally sealed containers.

TYPICAL PROPERTIES

Property	Unit	Value
Appearance		Clear liquid
Active Content	%	100
Density	g/cm ³	0.88 (DIN 51757 @ 20 °C)
Flach Point min.	°C	63 (DIN EN ISO 2719)
Boiling Point min.	°C	186
Refractive Index		1.40 (DIN 51423)
Viscosity	mPa-s	0.95

STORAGE

ConProtect all-time is a combustible liquid and should be kept away from heat, sparks, open flame and other sources of ignition. ConProtect All-time containers should be kept closed when not in use and should be stored at temperatures between -10°C and 40°C, away from rain and standing water. When working in an enclosed area, an air respirator should be used. The product has a shelf life of at least 12 months when stored in originally sealed containers. Please refer to the material Safety data sheet for more detailed information.

HEALTH AND SAFETY

Working in enclosed area an air respirator should be used. Before considering using ConProtect All-time please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, use and storage.

WASTE DISPOSAL

When disposing of waste, follow local waste management regulations and take hazardous waste to an appropriate collection point.




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MANUFACTURER CONTACT

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1119-CPR-21225 EN 1504-2:2004	
Surface protection products Hydrophobic impregnation ConProtect All-time	
Penetration depth	2. class, ≥ 10 mm
Water absorption coefficient	$< 7,5$ % compared to untreated test piece
Water absorption coefficient	< 10 % after impregnation in alkali solution
Drying speed of the hydrophobizer	2. class > 10 %
Dangerous substances	In accordance with 5.3



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NOTE: All reasonable precautions have been taken in the manufacture of ConProtect All-time products to ensure compliance with ConProtect All-time high-quality standards. Recommendations and product features are believed to be based on the most reliable information available, and do not constitute recommendations to infringe the rights of other patents. Although all ConProtect All-time products undergo rigorous quality testing, no specific guarantee can be given as results depend not only on quality but also on factors beyond our control. Therefore, we are happy to consult with you in case of any doubts regarding the application or the indicators, also pointing out that any oral recommendations other than those given here are not binding without written confirmation from ConProtect All-time. All transactions are subject to our terms of sale, delivery and service. This data sheet supersedes the previous one, a superseding version can be issued without notice, if necessary. The information on this page is true and reliable to the best of our knowledge. The offered on-site service cannot be taken as responsible supervision. Therefore, our warranty is limited to the quality of the materials supplied.