

ConProtect DB-50

Crystallizing impregnating agent for concrete and plastered surfaces (DUST BRAKE)

DESCRIPTION

ConProtect DB-50 is an easy-to-handle liquid concrete impregnator.

ConProtect DB-50 is used as a dust brake for concrete and to increase tear resistance and strength. ConProtect DB-50 is a unique non-transparent sealing and waterproofing layer that is solvent-free, non-toxic, odorless and environmentally friendly.

The performance of ConProtect DB-50 provides durable protection to concrete against water-borne chemicals. It is a sprayable colloidal liquid that penetrates the surface of the concrete and reacts with the cement matrix to form an insoluble gel that closes the pores, capillaries and cracks, creating a subsurface barrier against the entry of water and salts in the water. As long as water is present, ConProtect DB-50 is active and seals cheese cracks now and in the future. ConProtect DB-50 allows water vapor to pass through the structure (concrete breathes) while waterproofing/sealing the surface against sea water, aggressive ground water, waste water, water and certain chemical solutions.

USE AND ADVANTAGES

ConProtect DB-50 can be used to protect a variety of concrete structures, including marine and coastal structures, reservoirs, highways, airstrips, bridges, tunnels, silos, parking lots, swimming pools, precast panels, pipes, etc. Unlike solvent-based membranes, ConProtect DB-50 is environmentally friendly.

- Reduces porosity and permeability
- Water repellent
- 100% Trafficable. Improves slip resistance.
- Improves the durability of concrete.
- Heat reflective membranes may be applied over the top.
- Cannot be damaged, does not separate from concrete like membranes.
- Seals cracks in treated surfaces, preventing leakage through concrete.
- Remains active for the life of the concrete.
- Surfaces covered with asphalt do not delaminate and do not damage the system.
- Increases the useful life of the structure.

PREPARATION AND APPLICATION

ConProtect DB-50 should not be used at temperatures below +4 °C

(at high temperatures it is recommended to apply in the morning or late at night). Apply to the surface with a sprayer, brush or roller. Eye protection should be worn when spraying.

The installation speed when spraying with a sprayer is 100-150 m² per hour. Shake the container well before application.

Apply only to concrete which is dry to the touch (no damp patches).

➤ Surface treatment on concrete

Before processing the concrete, the concrete should be cleaned thoroughly. The surface should first be brushed to remove loose dirt. Old concrete surfaces are recommended to be washed with a pressure washer. Allow the concrete to dry properly for at least 24 hours before applying ConProtect DB-50.

Cracks must be repaired before installation and ConProtect DB-50 should be flooded with 1 liter per 3-4 running meters.

Testing determines if leaks are visible and should be checked for at least 12 hours. If leaks are detected, cracks must be repaired (injected) beforehand. Joints and similar areas must be sealed before application.

For new concrete, it is recommended to apply ConProtect DB-50 within 2 to 4 weeks. No puddles should remain on the surface.

If it rains before ConProtect DB-50 has dried, the material must be reapplied.

COVERAGE RATES

The recommended material consumption is 140-420 g/m² depending on the porosity of the surface.

New polished concrete surface: 140-180 g/m²

IMPORTANT

ConProtect DB-50 should not come into contact with glass.



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PROPERTIES

Property	Unit	Value
Appearance		Cloudy liquid
Relative density	kg/l	1,2
pH		11-13
Dry time		Min. 2- 4 h
Paintable		Excellent
Recoat		24 h
Flach Point		absent
Explosion hazards		absent

MANUFACTURER CONTACT

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STORAGE

Store in the shade, do not allow to freeze. Shelf life is 12 months in original sealed containers. Stir before application.

HEALTH AND SAFETY

Before considering the use of Forsilica product please read its Safety Data Sheet (SDS) thoroughly for safety and toxicological data as well as for information on proper transportation, storage and use.

The Safety Data Sheet is available on our website www.slprotection.eu or upon request from your local representative.

PACKAGING

ConProtect DB-50 (liquid) is available in 1000 L IBC containers. At the customer's request, it can also be packaged in other containers, such as 1L; 3L; 5L; 10L or 25 L canisters.

WASTE DISPOSAL

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

