

HIDRONIVELIT 2K



TYPE OF PRODUCT

Two-component flexible cementitious membrane for concrete waterproofing and protection. For interior and exterior applications (horizontal, vertical and overhead).

APPLICATION AREA

Waterproofing of bathrooms, showers, balconies, terraces, swimming pools, etc., before laying ceramic tiles.

Waterproofing of hydraulic channels, faces of dams and basins.

Waterproofing of retaining walls and foundations.

Flexible protection layer of new concrete structures and repaired structures subject to small deformations under load.

Protection against water and aggressive atmospheric elements for cementitious renders and concrete that has cracks from shrinkage.

Protection of concrete surfaces that could be exposed to seawater, such as deicing salts as sodium and calcium chloride.

TECHNICAL DATA

Mixing ratio: Comp. A : Comp. B = 27,3 : 72,7

Consistency (A+B): Fluid

Density (A+B): 1 600 kg/m³

Pot life: 60 minutes

Application temperature range: +10 °C to +35 °C

Withstand light pedestrian traffic: suitable

FINAL PERFORMANCE

According to EN 14891:2017

Initial tensile adhesion strength: $\geq 0,5 \text{ N/mm}^2$

Tensile adhesion strength after heat ageing: $\geq 0,5 \text{ N/mm}^2$

Tensile adhesion strength after water immersion: $\geq 0,5 \text{ N/mm}^2$

Tensile adhesion strength after freeze-thaw cycles: $\geq 0,5 \text{ N/mm}^2$

Tensile adhesion strength after contact with lime water: $\geq 0,5 \text{ N/mm}^2$

Tensile adhesion strength after immersion in chlorinated water: $0,5 \text{ N/mm}^2$

Waterproofing: No penetration to a positive pressure of 1,5 bar

Crack bridging ability test under standard conditions: $\geq 0,75 \text{ mm}$

Crack bridging ability test at -5 °C: $\geq 0,75 \text{ mm}$

Last update: September 2024.

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According to EN 1504-2:2004

Adhesion strength by pull-off test: $\geq 0,8 \text{ N/mm}^2$ (EN 1542)

Permeability to water vapor: Klasa I; $s_d < 5 \text{ m}$ (EN ISO 7783-1)

Capillary absorption and permeability to water: $< 0,1 \text{ kg/m}^2 \times \text{h}^{-0,5}$ (EN 1062-3)

Permeability to CO_2 : $s_d > 50 \text{ m}$ (EN 1062-6)

Thermal compatibility: $\geq 0,8 \text{ N/mm}^2$ (EN 13687-1)

Crack bridging ability: Klasa A4 (HRN EN 1062-7)

Waterproofing: No penetration to a negative pressure of 1,0 bar (ÖBV Guidelines, Point 12.7)

SURFACE PREPARATION

Waterproofing of terraces, balconies and swimming pools

Cementitious screed: cracks must be repaired, joints and voids must be filled and surfaces must be leveled using appropriate products from Chromos-bil range of materials.

Existing floors: Existing ceramic floors and coverings must be sound and wellbonded to the substrate. They also should be free from materials which may have a negative effect on the binding, such as grease, oil, wax and paint.

Renders: New rendering materials must be cured for at least 7 days per 1 cm of thickness applied. These materials also should be adherent to the substrate and free from laitance and paint.

Very dry and absorbent surfaces must be impregnated with a diluted CHROMOFAS impregnation. The impregnation must be diluted with pure water in a ratio of 1:4 (CHROMOFAS impregnation: water).

Protection and waterproofing of concrete structures:

New concrete must be cured for at least 28 days and should have a pull-off strength $\geq 1,5 \text{ N/mm}^2$.

The surface must be solid, sound, dry, non-frozen, free of non-bonded parts, oils, grease, dust and cleaned from prior coating. Remove all cement laitance, oil, grease, traces of powder etc. by sand-blasting or washing down with high-pressure water pump. In order to get undamaged reinforcement rods and no hairline cracks caused by vibrations of the structures, we particularly recommend use of high-pressure water pump. Sandblast the structure to remove any rust, then repair damage with a Expertan RM mortars (see Technical Data Sheets). Dampen absorbent surfaces with water before treating them with Hidronivelit 2K.

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MIXING

Pour component A (liquid) into an appropriate clean bowl, then slowly add component B (powder) mixing it with a mixer at a low rotation level until you obtain a homogeneous mixture (3-4 minutes).

APPLICATION INSTRUCTIONS

Hidronivelit 2K must be installed within 60 minutes from the mixing. Smooth out the prepared surface with the first layer of Hidronivelit 2K using a flat trowel, and then, after the first layer has properly hardened (in about 4 to 5 hours), apply the second layer vertically to the first one. The maximum recommended thickness is 1 mm per layer. The final film thickness is at least 2 mm.

In areas with hairline cracks or where large deformations appear, insert Fiberglass Mesh (4,5 mm) in the first layer of fresh Hidronivelit 2K. Immediately after laying the mesh, smooth the Hidronivelit 2K using a flat trowel.

When Hidronivelit 2K is used for waterproofing of terraces, balconies and swimming pools, it is recommended to place an elastic waterproofing strip into the first layer of fresh mortar (joints between horizontal and vertical surfaces), making sure it is completely built into the mortar.

After applying Hidronivelit 2K, wait at least 5 days (depending on temperature and humidity) for curing before laying ceramic tiles using Keramont flex or Keramont flex special adhesives.

Hidronivelit 2K can also be applied with a roller, brush or appropriate mortar pump, in a thickness of about 1 mm per layer.

APPROVALS/STANDARDS

Tested according to EN 14891:2017 and EN 1504-2:2004.

CLEANING

Wash tools with water immediately after use and before the mortar sets. Once the product has set, it can only be removed by mechanical means.

SPREADING RATE

Ca. 1,7 kg /m²/per mm of thickness.

PACKAGING

COMPONENT A: plastic container a 9 kg.

COMPONENT B: bag a 24 kg.

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STORAGE

In dry and good ventilated space at temperatures from +5 °C to +30 °C.
Shelf life: 9 months. Keep from direct sun light.

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