



Description

One-component, crack-bridging, flexible mortar, based on cement modified with waterproofing and workability improving additives used for interior and exterior applications.

Fields of Application

- Bathrooms, showers, WC, Turkish baths, spa-like wet areas before the tiling.
- Balconies and terraces before laying ceramic tiles.
- Swimming pools, water tanks, basins, pipes etc.
- Internal wall floors against leakage and surface water.
- External wall surfaces to be backfilled in the ground.
- It is applied on concrete surfaces which must be protected against sea water salts.

Properties

- Thanks to its special one-component formulation, it is ready for application by mixing with water only.
- Provides advantages in transportation and stock.
- Flexible waterproofing and good crack-bridging ability.
- It is the ideal waterproofing material before tiling or screed jobs.
- Good sag resistance and easy to apply, even on vertical surfaces.
- Can be applied on damp substrates.
- Prevents carbonation in concrete.
- Resistant to freeze-thaw.
- Highly resistant against chloride ions.
- Easy to apply either by brush, roller or trowel.

Preparation of Substrates

- The substrates should be dry, clean and solid.
- The surfaces to be coated should be free of adhesion preventive foreign substances such as dust, dirt, mould oil, paint etc.
- The sub-surfaces that are not strong enough to carry themselves e.g. cracked plasters, weak surfaces, or residues of moss should be cleaned from the application surface.
- Use Tamirart series repair mortars in case of any loose and uneven substrates to get a sound and flat surface.
- Corners should be rounded with Tamirart S40.
- In cases where one could not round the corners with structural repair mortar, it is recommended to select the most suitable type of Kalekim Waterproofing Tape at the joints such as horizontal - vertical joints, parapet corners, luminaires, chimney bottoms. This step should be applied after the primer.
- Before application of İzolatex 1K, the surface should be primed with Kalekim Astar (Primer).

Application

- Pour 20 kg of İzolatex 1K in the right quantity of clean water slowly according to the respective application method and mix for 3-4 minutes until homogenous lump free mortar is obtained.
- Do not add any additives other than those stated in the application instructions.
- During the application, the mortar should be mixed frequently to maintain its consistency. In case the consistency of the mortar increases, water should not be added. The mortar should be mixed to ensure workability again.
- Ready to use mortar should be applied in at least 2 layers, to a total thickness of at least 3 mm by brush, trowel or roller.
- Waiting time between the applications of two layers is about 4 -6 hours depending on the temperature.
- To obtain the recommended long term technical performance of the product, after the application of İzolatex 1K, it should be covered and protected with a screed, ceramic, tile etc.
- If İzolatex 1K will be covered with tile, a high performance, flexible type of Kalekim Tile Adhesive should be used at least with C2 S1 / S2 class in accordance with EN 12004 standard.

One-Component Cementitious Mortar for Flexible Waterproofing & Concrete Protection



3022 İzolatex 1K

Post-Application Protection & Suggestions

- During the covering process, the waterproofing material should not be damaged by mechanical effects and the waterproofing material should be protected during the curing.
- Fresh applied surfaces should be protected against direct sunlight, strong airflow, high air temperature (over + 35 °C), rain and frost during the first days.
- The product should be used within the pot life. Products with expired pot life should not be used.
- It should not be applied at very high temperatures, under direct sunlight, in extremely windy, foggy, rainy, frost-risk weather conditions. Low temperature and high relative humidity can extend the drying time.
- It should not be applied in rainy weather and the applied surface should be protected from rain within 24 hours.
- Surface and ambient temperature should be between + 5 °C and + 35 °C during the application.
- See the Safety Data Sheet for more information.

Storage

- Packages should be kept dry and cool at between +5°C and +35°C in moisture free conditions. Avoid direct sunlight.
- Packages should be protected from water, frost and adverse weather conditions.
- Maximum 3 pallets should be stacked on top of each other.
- Shelf life is maximum 12 months conditional to complying with the above mentioned storage conditions.

Packaging

- 20 kg multi-ply paper bag.

Quality Certificates

Conforms EN 14891 and EN 1504-2
Class CMO1P.

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3022 İzolatex 1K

Technical Properties

(at 23°C and 50% RH)

General Data

Appearance	Grey colour cement modified powder
Shelf Life	12 months when stored in the original sealed packaging.

Application Data

Application and Surface Temperature Range	(+5°C) – (+35°C)
Mixing Ratio	5.5 – 6.3 lt water per 20 kg bag (by brush) 3.2 – 4.0 lt water per 20 kg bag (by trowel)
Pot Life	≥ 120 min. at +20 °C
Consumption	0.85 – 1.00 kg/m ² /mm
Waiting Time / Overcoating	Min. 3 days
Time to Waterproof	7 days

Performance Data

Fresh Mortar Density	1.35 ± 0.1 g/cm ³
Initial Tensile Adhesion Strength and After Water Contact, Heat Aging, Freeze-Thaw Cycles (EN 14891)	≥ 0.5 N/mm ²
Tensile Adhesion Strength (EN 1542)	≥ 1 N/mm ²
Freeze Thaw De-Icing Salt Resistance (EN 13687-3)	≥ 1 N/mm ²
Water Penetration under Pressure (EN 14891)	7 bar (positive)
Crack Bridging Ability (EN 14891)	≥ 0.75 mm (+23 °C) ≥ 0.75 mm (-5 °C)