



### Description

Semi-flexible waterproofing and concrete protection mortar consisting of emulsion polymer-based liquid component and cement-based powder component containing chemical additives that increase water impermeability and workability for interior and exteriors.

### Fields of Application

- Waterproofing of bathrooms, showers, balconies, terraces before laying ceramic tiles.
- Waterproofing of swimming pools, Turkish baths before laying ceramic tiles.
- Can be applied on surfaces such as concrete, plaster, screed.

### Properties

- Appropriate for waterproofing before covering with ceramic or screed.
- Approved to be used in contact with potable water tanks.
- Excellent bonding on all concrete and masonry.
- Non-corrosive for steel and construction elements.
- Applicable both on horizontal and vertical surfaces.
- Prevents carbonation in concrete.
- Resistant to freeze-thaw.
- Easy to apply either by brush, roller, trowel or spray.

### 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.
- It should not be applied under direct sunlight and the applied surface should be protected from rain within 24 hours.
- 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.
- The surface should be primed with Kalekim Astar(Primer) depending on the absorbency of the substrate before application.

### Application

- Pour 5 liters of liquid component into a suitable clean container. Then slowly add 20 kg of powder component and mix with a low speed mixer to obtain a homogenous lump free mix. Mixing with max 500 rpm. mixer is recommended.
- Allow the mortar to stand for 5 minutes to mature. After remixing for 1-2 minutes, the paste is ready for application.
- Apply a thin layer of İzolatex with a brush, roller or trowel, then after 5 - 6 hours apply a second coat, to have a final thickness of approximately 2 mm.
- Kalekim Waterproofing Tape should be applied to the corners and joints at the application area.

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### Post-Application Protection & Suggestions

- The product should be used within 2 hours. Unfavourable climatic conditions (high temperature, low humidity, wind etc.) can reduce this time to just a few minutes. Dispose mortars of which pot life is expired.
- Product should be used within shelf life. Do not use the product of which shelf life is expired.
- Clean tools and hands with water, surfaces with a damp cloth.
- Protect the surface from direct sunlight, rain, freezing and wind within the first 24 hours after application
- İzolatex applied surface should be covered with a protective coating material such as screed and ceramic.
- After applying İzolatex, wait at least 7 days for curing in favourable climatic conditions before laying ceramic tiles.
- When İzolatex is used for waterproofing of drinking water tanks, do not fill the tank before waiting 28 days for curing. Before using the tank, washing it down with hot water several times is recommended.
- During the coating process, the insulation material should not be mechanically damaged.
- The consumption values in the table refers to an average consumption amount. It may vary depending on the application conditions and surface properties.
- Since it contains cement, it irritates the eyes, respiratory system and skin.
- For further information refer to the safety data sheet.

### Storage

- Liquid component: Store at between +5°C and +23°C in original sealed packaging avoiding direct sunlight.
- Powder component: Should be kept dry and cool at between +5°C and +35°C in damp free conditions avoiding direct sunlight. Do not stack more than 10 bags on top of each other.
- Should be protected from water, frost and adverse weather conditions.
- Shelf life is maximum 12 months under above mentioned storage conditions

### Packaging

- Powder component: 20 kg multi-ply paper bags.
- Liquid component: 5 lt drums
- Set of 25 kg

### Quality Certificates



EN 1504-2 Class MC, IR-C

Hacettepe University Doping Control Center Approval Report according to BS 6920 (suitable for use in contact with water intended for human consumption)



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### Technical Properties

(at 23°C and 50% RH)

### General Data

Appearance	1st component: Grey powder 2nd component: White liquid
Shelf Life (Powder and liquid)	12 months when stored in the original sealed packaging.

### Application Data

Application Temperature	(+5°C) – (+35°C)
Mixing Ratio	5 lt liquid / 20 kg powder
Mixing	~3 mins. with max. 500 rpm mixer
Pot Life	2 hours
Consumption	1.7 kg/m <sup>2</sup> (per 1 mm thickness)
Waiting Time Between the Coats	5 - 6 hours
Waiting Time/ Overcoatibility:	Min. 3 days
Time to Waterproof	7 days

### Performance Data

Density of Mix	1900±100 kg/m <sup>3</sup>
Impermeability to Water (for 3mm thickness):	2 bar (positive)
Adhesion Strength (EN 1542)	≥1.00 N/mm <sup>2</sup>
Adhesion Strength After Cycling Without De-icing Salts Impact (EN 13687-3/ EN 1542)	≥1 N/mm <sup>2</sup>
Adhesion Strength After Heat Ageing (EN 1062-11/EN 1542)	≥1 N/mm <sup>2</sup>
Permeability to Water-Vapor (EN ISO 7783-2)	Class I ; Sd <5 (Sd: Equivalent air thickness)
Capillary Water Absorption (EN ISO 1062-3)	< 0.1 kg/m <sup>2</sup> h <sup>0.5</sup>
Heat Resistance	(-30°C) - (+80°C)
Dangerous Substances	See SDS.
Reaction to Fire	European classification Bs1d0