

### Description

3-layer, super-elastic waterproofing membrane consisting of modified polyethylene film laminated in between polypropylene felt of high alkali resistance to be applied prior to the coating of materials, such as tile and natural stones, both in internal and external environments.

### Fields of Application

- In areas subject to wetness such as bathrooms, showers and Turkish baths,
- In continuously wet areas such as pools and small volume water tanks,
- In terraces and balconies,
- On surfaces that are subject to activity (pedestrian, load traffic, expansion),
- In food products industry (milk, beer, wine, meat integrated facilities, slaughter houses, cafeterias and restaurants), in facilities that require chemical resistance such as the ones belonging to the textile industry, hospitals, laboratories and pharmaceuticals industry,
- On plaster and cement based panels, and on concrete, plaster, screed surfaces.

### Properties

- It provides fast application and the opportunity to apply the next application without waiting.
- Waterproofs.
- Resistant to diluted acidic and alkali solutions.
- High elasticity and crack bridging ability.
- Easy and fast application in a single layer.
- According to the criteria of the European technical approval agency (ETAG 022) suitable for use in wet areas.

### Preparation of Substrates

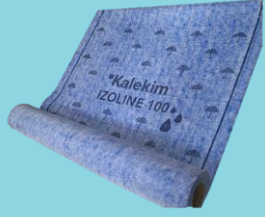
- The substrates should be dry, clean and solid.
- The surfaces to be coated should be free of adhesive preventive foreign substances such as dust, dirt, mould oil, paint etc.
- The sub-surfaces that are not strong enough to carry themselves e.g. cracked plasters, weak surfaces, or residues of moss should be cleaned from the application surface.
- Use Tamirart series repair mortars and Mastar 10 in case of any loose and uneven substrates to get a sound and flat surface.
- The application surface must be protected against sun, rain and dust for a period of one day and application must not be made under direct sunlight.
- Prior to the application, the surface must be dampened to the degree it would be saturated. Care must be taken to avoid collecting water in some areas. When deemed necessary Kalekim Astar or Gypsastar must be applied. In applications to be made on tiles, Kalekim Dolgulu Astar must definitely be used.
- On corners and joints Technoflex, Technopool, Technomax 30, Ultratech tile adhesive (minimum C2 class and S1 flexibility) and Kalekim Waterproofing Tape – Type III must be applied while İzoline 100 Supplementary Products are applied on corners and pipe details (interior and exterior corners, pipe and floor collar).

### Application

- İzoline 100 water insulation membrane is cut in a size appropriate for the area of application. İzoline 100 is placed on Technoflex, Technopool, Technomax, Ultratech tile adhesive (minimum C2 class and S1 flexibility) that is applied with the help of 4 mm or 6 mm dredge. It is ensured that İzoline 100 fully adheres to the surface by removing any excess mortar on the bottom layer by moving the trowel from the middle to the outer edges in a manner that would not leave any air bubbles.
- When İzoline 100 is being applied side by side, two membranes must overlap by at least 5 cm and the overlapping parts must be fixed to each other by means of the tile adhesive used for adhesion.
- At parts that would be subject to constant and high water pressure (pools, thermal springs, etc.), the membranes must not overlap but be placed end to end. The joints of the membranes that are placed end to end must be insulated by means of Kalekim Waterproofing Tape – Type III application by using flexible water insulation materials such as İzoletex Plus, İzolatex UV, Elastikor and Ultralastic.
- After İzoline 100 application is completed, tile application can be started without waiting. Tile application must be made by using tile adhesive of minimum S1 flexibility such as Technoflex, Technopool, Technomax 30, and Ultratech.

### Post-Application Protection & Suggestions

- When tile application on top of İzoline 100 is not made immediately, the surface must be protected against direct sunlight and rain.
- İzoline 100 applied surfaces should be coated with a flooring compound or tiles.
- During the coating process, the insulation material should not be mechanically damaged.



İzoline 100

#### Technical Properties

(at 23°C and 50% RH)

#### General Data

Appearance	Polyethylene blue colored membrane with both sides coated in felt
Width	1 meter
Thickness	~ 0.5 mm
Roll Length	30 meter
Shelf Life	24 months in an unopened package in a dry environment.

#### Application Data

Application Temperature	(+5°C) – (+35°C)
Temperature Resistance	(-30°C) - (+80°C)

#### Performance Data

Water Impermeability	≥ 1.5 bar (positive)
Explosion Pressure	> 2 bar
Tensile Strength – Lengthwise	335 N/50 mm
Tensile Strength – Widthwise	225 N/50 mm
Elongation at Rupture – Lengthwise	87%
Elongation at Rupture – Widthwise	133%
Adhesion Strength (EN 1348)	> 0.5 N/mm <sup>2</sup> (with Technoflex)
Water Vapor Permeability (EN 1931)	Sd > 50 m (Sd: Equivalent air layer thickness)
UV Resistance	> 450 hours
Dangerous Substances	See SDS.
Reaction to Fire	European Class Cs1d0

#### Storage

- Should be kept dry and cool at between +5°C and +35°C in damp free conditions avoiding direct sunlight.
- Should be protected from water, frost and adverse weather conditions.
- Shelf life is maximum 24 months under above mentioned storage conditions.

#### Packaging

- Polyethylene foil wrapped in a 30 m roll.

"Please Note: All suggestions and application instructions herein are based on our latest technical experience. Due to a wide variety of individual application conditions, the user alone is responsible for any consequences deriving from the use of the product."

