3401 İzoblok 2K+

Technical Data Sheet

Two Component Bitumen Rubber Based Waterproofing Material

3401 İzoblok 2K+

Description

Flexible, two component, solvent free, fiber reinforced bitumen rubber based waterproofing material used on the positive side only for protection against water leakage of construction elements under the ground or in the floor level.

Fields of Application

- Waterproofing of sub-base building structure surfaces (horizontal/vertical) which are permanently contact with leakaging or pressurized water and moisture.
- Waterproofing of foundations, retaining walls and basement walls, green terraces, sub-base car parking areas, basement floors,
- Waterproofing of interior and exterior mineral surfaces like concrete, stone, brick, plaster, mortar etc.

Properties

- Flexible and crack-bridging. Bridges shrinkage cracks.
- Forms a seamless moisture and waterproofing membrane.
- Easy to apply (by brush or trowel) on both vertical and horizontal surfaces.
- Highly adherent to any mineral substrate such as conctrete, stone, brick.
- Resistant to aging under the conditions where substrate is exposed to several factors such as salt solutions, chemicals in regular soil and weak acids. Performance will remain the same for several years.
- Resistant to freeze-thaw cycles.
- Suitable for areas and surfaces where vibration or motion exists.
- Can be used on brick walls without plastering.
- Solvent free.

Preparation of Substrates

- The substrates should be dry, clean and solid.
- The surfaces to be applied 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 in case of any loose and uneven substrates to get a sound and flat surface.
- Corners should be rounded with Tamirart S40.
- Movement joints and seams must be first waterproofed with Kalekim Dilatation Band.
- In order to prevent air bubbles that may occur during or just after the application on highly porous surfaces, pores should be treated by Tamirart 40 or İzoblok 2K+.
- For improved adhesion on the surface; İzoline Astar should be used as a primer.

Application

- Pour the powder into the liquid component then mix up using an lower than 500 rpm mixer until getting a homogenous mixture without any lumps.
- When total amount of package is not required, mix the powder with liquid at a mixing ratio of 22:8 by weight.
- After the primer has dried, apply minimum in 2 coats with brush or trowel. Wait for 1-2 hours between coats depending on temperature.
- Depending on the surface porosity and water pressure, more coats can be applied.

info@kalekim.com

Revision Date: <REV_TARIHI>

Revision No.: <REV_NO>

3401 İzoblok 2K+

Technical Data Sheet

Two Component Bitumen Rubber Based Waterproofing Material

3401 İzoblok 2K+

Post-Application Protection & Suggestions

- To reinforce the waterproofing membrane on large areas, horizontal and vertical corners and to bridge the existing cracks, apply with fibre mesh of 70 - 90 g/m². In waterproofing of foundation and sub-base retaining walls, protect the applied surface with suitable brick, drainage or insulation boards.
- Before filling with soil, the waterproofed surface should be protected with thermal insulation board, drainage board or brick against possible damage at underground applications.
- Mixture should be consumed within 3 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.
- Since it is not UV resistant, it should be properly covered after application.
- Filling should be done after İzoblok 2K+ is cured completely.
- The applied surfaces should be protected against adverse weather conditions such as direct sunlight, strong air flow, high air temperature (over + 35 °C), rain and frost in the first days.
- Packaging should be kept closed when the application is paused. The product must be protected from freezing.
- Surface and ambient temperature should be between + 5 °C and + 30 °C during application.
- Apply on dry or damp (but not wet) surfaces.
- No additives should be added other than recommended in the technical data sheet.
- Application should not be done in rainy weather.
- Should not be applied against negative water pressure.
- Application tools should be washed with soapy water immediately. It can be cleaned only with industrial type solvents after it dries.
- The consumption values in the table refers to an average consumption amount. It may vary depending on the application conditions and surface properties.
- For further information refer to the safety data sheet.

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.
- Maximum 3 buckets should be stacked on top of each other.
- Shelf life is maximum 12 months under above mentioned storage conditions.

Packaging

- Available in A+B component 30 kg plastic pails.
- Liquid: 22 kg, Powder: 8 kg

Quality Certificates

CE

Conforms EN 15814

info@kalekim.com

Revision Date: <REV_TARIHI>

Revision No.: <REV_NO>

3401 İzoblok 2K+

Technical Data Sheet

Two Component Bitumen Rubber Based Waterproofing Material

3401 İzoblok 2K+

Technical Properties

(at 23°C and 50% RH)

General Data

Appearance	1st component: Black-brown liquid; 2nd component: Grey powder
Shelf Life	12 months when stored in the original sealed packaging.
Solid Content Ratio	71% ± 1

Application Data

Application and Surface Temperature Range	(+5°C) – (+35°C)
Application Thickness	
For moisture resistant insulation	min. 3 mm dry film thickness
For non-pressure water resistance	min. 3 mm dry film thickness
For pressure water resistance	min. 4 mm dry film thickness
Mixing Ratio	22 kg liquid / 8 kg powder
Pot Life	2 – 4 hours
Consumption	Approx. 1.0 – 1.5 kg / m² for each 1 mm thickness. (the consumption amounts are theoretical and it varies by the condition of application surface)
Tack-Free Drying Time	6 hours
Waiting Time Between the Coats	1 - 2 hours (depending on the weather conditions)
Complete Drying Time	1 – 5 days
Ready to Use Time	7 days (depending on the curing time)

Performance Data

Density (mixture)	1.13± 0.03 gr/ml
Crack Bridging (EN 15812)	Class CB2
Waterproofing Capacity	Class W1 (3 mm dry film thickness)
Resistance to Water (EN 15817)	Pass
Low Temperature Flexibility (EN 15813)	Pass
High Temperature Dimensional Stability (EN 15818)	Pass
Durability (EN 15820 & EN 15817)	Pass
Reaction to Fire (EN 13501-1)	Class E

"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."

info@kalekim.com

Revision Date: <REV_TARIHI>

Revision No.: <REV_NO>