



Description

Crystalline waterproofing material consisting of emulsion polymer based liquid and cement based powder components that contain chemical additives to increase water impermeability and workability, which is applicable from both negative and positive directions of interior and exterior concrete and masonry structural elements.

Fields of Application

- For interior and exterior areas, in vertical and horizontal directions,
- Waterproofing of;
 - Bathrooms, showers,
 - Water basins,
 - Foundations, retaining walls, basement walls,
 - Tunnels,
 - Elevator shaft basements,
 - Brine pit,
 - Fishponds,
 - Concrete, plaster and screed surfaces.

Properties

- Resistant against both negative and positive water pressure.
- 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 or trowel.

Preparation of Substrates

- The substrate must be dry, clean and sound.
- The substrate must be free of dust, loose parts, paint, wax, oils, rust and traces of gypsum.
- Loose parts, dust, dirt, oil, soil, etc. on the surface preventing adhesion and penetration to concrete should be thoroughly cleaned and pores should be opened with a water jet, sandblasting or wire brush.
- Active water leakages should be repaired with İzostop or İzostop Rapid.
- Corners and joints should be smoothened with waterproofing tapes (Kalekim Pah Bandı) or Tamirart S40.
- Surfaces must be carefully soaked prior to the application. The concrete surface must be damp but not wet.
- The substrate should be protected from sunlight, precipitation and dust for 1 day and application should not be done under direct sunlight.

Application

- Pour 3 liters of liquid component and 5.0-6.0 lt of water into a suitable clean container. Then slowly add 25 kg 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 30 seconds, the paste is ready for application.
- Apply 2-3 layers of mortar with a brush, roller or trowel. Direction of the application should be perpendicular to the previous one for each layer.
- Wait for at least 3 hours in between the application of each layer depending on the temperature. For waiting durations more than 12 hours, slightly dampen the surface. 3 mm of total thickness will be enough.
- After application, the surface should be moist for 5 days and drying should be prevented. During this period, the surface should be protected from unfavorable weather conditions such as direct sunlight, wind, frost.

Bu mesaj/doküman HİZMETE ÖZEL etiketi ile sınıflandırılmıştır.



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Post-Application Protection & Suggestions

- Fresh mortar 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.
- Hands and application tools should be washed with water after application.
- After the applications that are done in external areas, surfaces should be protected from direct sunlight, rain, frost and wind for at least 1 day.
- If the area of application will be exposed to direct sunlight or traffic, İzoseal 2K applied surfaces should be covered with a protective coating material such as ceramic, screeds, etc.
- After applying İzoseal 2K, wait at least 7 days for curing in favourable climatic conditions before covering or taking into operation.
- Consumption values in the technical 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 in temperatures from +5 °C to +23 °C in original sealed packing and keep the out of 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: 25 kg multi-ply paper bags,
- Liquid component: 3 lt drums.
- Set of 28 kg.

Certificates of Quality



EN 1542, Class MC, IR-C



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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	12 months when stored in the original sealed packaging

Application Data

Application Temperature	(+5°C) - (+35°C)
Mixing Ratio	3 lt liquid / 5-6 lt water / 25 kg powder
Mixing	~3 mins. with max. 500 rpm mixer
Pot Life	~2 hours
Consumption (per 1 mm thickness)	For humidity: 0.70 kg/m ² For Non-Pressurized Water: 1.00 kg/m ² For Pressurized Water: 1.35 kg/m ²
Waiting Time Between the Coats	3 - 6 hours
Time to Waterproof	7 days

Performance Data

Density (EN 1015-6)	1850±100 kg/m ³
Impermeability to Water:	4 bar (negative) 7 bar (positive)
Adhesion Strength (EN 1542)	≥1.00 N/mm ²
Adhesion Strength After Cycling Without De-icing Salts Impact (EN 13687-3/ EN 1542)	≥1.00 N/mm ²
Adhesion Strength After Heat Ageing (EN 1062-11/EN 1542)	≥1.00 N/mm ²
Permeability to Water-Vapour (EN ISO 7783-2)	Class I ; Sd <5 m
Capillary Water Absorption (EN ISO 1062-3)	< 0.1 kg/m ² h ^{0.5}
Heat Resistance	(-30°C) - (+80°C)
Dangerous Substances	See SDS.
Reaction to Fire	European classification Bs1d0