



3026 İzoseal

Description

One component, capillary effect, cementitious waterproofing compound applicable from both inside (negative) and outside (positive) directions, for interior and exterior concrete and masonry structural elements.

Fields of Application

In waterproofing of all structurally sound concrete, either from negative or positive side on;

- Basements.
- Foundations and basement retaining walls.
- Swimming pools and reservoirs.
- Sewage and water treatment plants.
- Tunnels, channels and bridges.
- Elevator shaft basements.
- Wet areas like bathrooms, WC etc.
- Underground garages and warehouses.

Properties

- Penetrates deeply and seals concrete's capillary tracts and shrinkage cracks (up to 0.4 mm.) thank to crystals it forms.
- Can be applied from either the positive or negative side by masonry brush or appropriate power spray equipment.
- Completely effective against high hydrostatic pressure.
- Easy to apply, labor-cost effective.
- Does not require protection during backfilling, placement of steel or wire mesh, and other common procedures.
- Can be applied to moist or green concrete.
- Protects embedded steel (reinforcing steel and wire mesh).
- Approved to be used in contact with potable water tanks.

Preparation of Substrates

- Concrete substrates to be applied on must be clean, sound and have an open capillary system. Remove loose parts, dust, dirt, grease, soil etc. which may cause poor adhesion and may prevent penetration of product by high pressure water jetting, wet sandblasting or wire brushing.
- The iron and wooden wedges on the surface should be removed and active water leaks and gaps should be filled with İzostop or İzostop Rapid.
- Corners should be rounded with Tamirart S40.
- Surfaces must be carefully prewatered prior to the application. The concrete surface must be damp but not wet.

Application

- Pour 25 kg of powder slowly into 7 - 7.5 lt clean water for brush application and into 12 - 12.5 lt for spray application, then mix up until no lumps remain.
- During the application, to store consistency stir mortar frequently. If the mortar starts to set, do not add more water, simply re-stir to restore workability.
- Apply the prepared mortar in two coats by masonry brush or power spray equipment. Apply the second coat perpendicular to the first coat, while it is still "green".
- The treated areas should be kept damp for a period of 5 days and must be protected against direct sun, wind and frost, by covering with polyethylene sheeting or similar.



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Post-Application Protection & Suggestions

- The product should be used within the 40 minutes. 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.
- Protect the surface from direct sunlight, rain, freezing and wind for the first 24 hours after application.
- **If İzoseal applied surface will be exposed to sunlight or traffic; surface should be covered with a protective coating material such as ceramic, screed.**
- İzoseal gains mechanical resistance after 2 days and time to waterproof is 7 days. After applying İzoseal wait at least 7 days for curing in favourable climatic conditions before laying ceramic tiles.
- 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

- Storage conditions should be dry and moisture-free, between 5 °C and 35 °C, away from direct sunlight.
- Protect from water, frost and severe weather conditions.
- Do not stack more than 10 bags on top of each other.
- Shelf life is 12 months when stored in the original sealed packing.

Packaging

- 25 kg multi-play paper bags.

Certificates of Quality

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	Grey Powder
Shelf Life	12 months when stored in the original sealed packaging

Application Data

Application Temperature	(+5°C) - (+35°C)
Mixing Ratio	7 - 7.5 litres water/25 kg powder (for roller application) 12 - 12.5 litres water/25 kg powder (power spray application)
Pot Life	40 minutes
Consumption	2 kg/m ² for 2 coats
Waiting Time Between the Coats	3 - 6 hours
Time to Waterproof	7 days

Performance Data

Density (EN 1015-6)	2100±100 kg/m ³
Impermeability to Water:	7 bar (Negative and positive side)
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)	Class I ; Sd <5 (Sd: Equivalent air thickness)
Capillary Water Absorption (EN ISO 1062-3)	< 0.1 kg/m ² h ^{0.5}
Dangerous Substances	See SDS.
Reaction to Fire	A1