



Waterproofing

ISOMIX HYBRID TERRALASTIC 2K

HYBRID WATERPROOFER Technical Data Sheet

Revised: 06.06.2026

DESCRIPTION

ISOMIX HYBRID TERRALASTIC 2K is an innovative hybrid cementitious waterproofing system designed for multiple applications. When mixed with ISOMIX RP1250, a polyurethane-modified acrylic polymer emulsion, it forms a highly elastic, fiber-reinforced, two-component waterproofing membrane with outstanding performance and rapid curing, specifically developed for the most demanding waterproofing applications. The system provides superior resistance to both positive and negative hydrostatic pressure, offers excellent static and dynamic crack-bridging capability, and delivers long-term protection of structures against moisture and water ingress. It is also suitable for waterproofing exposed surfaces such as roofs and terraces (white version reinforced with fabric), retaining walls, and other applications subjected to direct UV exposure and weathering. **ISOMIX HYBRID TERRALASTIC 2K** is classified as a two-component liquid-applied waterproofing product, class CM O2P, for installation beneath ceramic tiles on external floors, walls, and swimming pools in accordance with EN 14891. It is also classified as a surface protection system for concrete in accordance with EN 1504-2.

ADVANTAGES

- Fast curing
- High mechanical strength
- Strong adhesion
- Highly elastic
- Static crack bridging
- Dynamic crack bridging
- Crack bridging up to 2mm
- High resistance to positive hydrostatic pressure, providing waterproofing even under pressure up to 5 atm (EN 12390-8)
- Capable of withstanding negative hydrostatic pressure
- Vapor permeable
- Ageing resistant
- UV resistant (white version)
- Excellent adhesion on damp surfaces without prior priming
- Easy and economical application
- Suitable for interior and exterior use
- Protects concrete against carbonation

APPLICATIONS

- Waterproofing and protection of roofs, terraces, balconies, and wet areas such as bathrooms and kitchens prior to the installation of ceramic tiles or other final floor and wall finishes.
- Waterproofing and protection of basements, both externally and internally, including applications subjected to negative hydrostatic pressure.
- Waterproofing of structures exposed to thermal expansion/contraction and vibration, such as balconies, above ground water tanks, swimming pools and surrounding areas, fountains, planters, inverted roofs, and similar applications.
- Used as a waterproofing layer in External Thermal Insulation Composite Systems (ETICS).
- Used as a waterproofing membrane for sealing cracks beneath ceramic tile installations in bathrooms, terraces, and balconies.
- Ideal for waterproofing structures exposed to seawater and for construction projects close to coastal and marine environments.
- Suitable for waterproofing exposed surfaces such as roofs, terraces, retaining walls, and other areas subjected to direct UV exposure when using the white version reinforced with fabric.
- Waterproofing of substrates including concrete, cement render, brickwork, concrete blocks, aerated concrete, terrazzo,

gypsum board, wood, metal, polystyrene (EPS/XPS), expanded polystyrene foam, and other common construction materials.

INSTRUCTIONS FOR USE

Application Preparation

1. Surface Cleaning: Ensure surfaces are free from dust, salts, oils, and loose residues.
2. Sealing Leaks: Cracks, capillaries, and leakage points must be sealed using the same material if there is no water flow or with ultra-fast setting cement if water flow is present.
3. Filling Holes & Cavities: Holes or voids in concrete should be filled and leveled with **ISOMIX RAPID CEMENT** or **ISOMIX MECHANIC** after removing loose materials and moistening the surface.
4. Exposed Reinforcement: Any exposed reinforcement should be cut to a depth of approximately 20-30 mm into the concrete, and the holes should be filled using the above method.
5. Construction Joints: Joints should be opened along their entire length, approximately 35 mm deep in a V-shape, and filled with **ISOMIX RAPID CEMENT** or **ISOMIX MECHANIC**.
6. Basement Waterproofing (Old Constructions): In the case of underground waterproofing for existing buildings, the existing plaster must be removed at least 50 cm above the underground water level, followed by the application of **ISOMIX HYBRID TERRALASTIC 2K**.
7. Corners & Junctions: Floor-to-wall junctions and other corners should be rounded using **ISOMIX RAPID CEMENT** or cement mortar reinforced with **ISOMIX RESIN SBR 400**, forming a triangular shape.
8. Surface Leveling & Slope Creation: Where surface leveling or slope formation is required, the use of **ISOMIX SELF LEVEL 1-30** self-leveling mortar is recommended.
9. Pre-Wetting the Surface: Before application, homogeneously moisten the dry, porous surface using clean water. Avoid excessive water accumulation.

Application

1. Mixing the Components: in a clean container, first add component B, ISOMIX RP1250, then gradually add **ISOMIX HYBRID WATERPROOFER 3X** mortar under continuous stirring (mixing ratio 12,5:25). Use a low-speed electric mixer to prevent air bubble formation. Mix until a uniform, thick, and spreadable mortar is obtained, capable of being applied in thin layers without running.
2. Application Method: apply the mixture using a trowel, spatula, brush, or roller. Each layer should be maximum 1mm thick, ensuring full coverage of the surface.
3. Reinforcement (For Enhanced Strength): While the first layer is still wet, embed 65-90 gr/m² or 150-160gr/m² fiberglass mesh into it. In this case, three layers are required.
4. Second Coat: Once the first coat has dried (4-8 hours), apply the second coat crosswise, fully covering the embedded mesh.
5. Third Coat (For High-Performance Applications): For more demanding structures, a third coat is recommended. The total thickness should not exceed 3mm.
6. Workability: The mixture remains workable for up to 1 hour, depending on the temperature.
7. Moisten the surface before each coat, ensuring it is damp but without standing water.
8. Waiting Time Before Overcoating: Before covering the waterproofing layer with another cementitious material, wait 2 – 7 days (longer in lower temperatures, shorter in higher temperatures).

CLEANING

Clean the tools immediately after use with soap and water. The polymerized - dried material can only be removed by mechanical means.

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CONSUMPTION

2,0 – 4,0kg/m² applied in two or three layers depending on the application thickness and the requirements of the project.

REMARKS

- Do not apply more than 1,5 kg/m² per layer.
- Protect the surface from rain or frost for at least the next 48 hours.
- Do not finish the surface with a straightedge or float after it has dried.
- Do not add water or aggregates to the mixture.
- Embed fiberglass mesh tape or polyester fabric at wall-floor junctions and along joints to reinforce the waterproofing layer.
- Do not expose the two components to intense sunlight before use.
- Do not apply at temperatures below 5°C or above 35°C.
- In very hot or dry conditions, if the application cannot be postponed, lightly spray the surface with water during the first two days to prevent cracking.
- The substrate must be designed to statically withstand hydrostatic pressure.
- If tiles are to be installed after applying the waterproofing system, choose a resin adhesive of at least C2TES1 category for application in swimming pools or at least C2TE for other simpler applications.
- Do not apply to substrates that have not fully cured.
- In cases of backfilling, install a protection membrane (e.g. a dimpled drainage membrane) over the water proofing layer.

TECHNICAL CHARACTERISTICS

Component A

Base: Cementitious mortar with special additives

Form: Powder

Color: Grey, White

Shrinkage: Minimal

Maximum grain size: 0,5 mm

Bulk density: 1,40 ± 0,05 g/cm³

Component B

Base: PU modified acrylic polymer emulsion

Form: Aqueous emulsion

Color: Milky

Density: 1,00 ± 0,05 g/cm³

Final mixture

Mixing ratio: 2:1 (for every 25 kg of mortar, 12,5 kg of resin are required)

Density: 1,65 ± 0,05 g/cm³

Mixing time: 3–5 minutes

Pot life: 60 minutes at +20°C

Maximum layer thickness: 1mm

Minimum total thickness: 1,5mm

Maximum total thickness: 3mm

Application temperature: From +5°C to +35°C

Cured product

Temperature resistance: -30°C to +80°C

Resistance to positive hydrostatic pressure: No penetration (5 bar, 3 days)

Resistance to negative hydrostatic pressure: No penetration (1.5 bar)

Static Crack Bridging (+23°C):

- EN 1062-7: Class A4

- EN 14891: ≥ 2,00mm

Dynamic Crack Bridging (+23°C): B2 (total application thickness 2.00 mm)

Capillary water absorption: $w < 0.1 \text{ kg/m}^2 \cdot \text{h}^{0.5}$

Water vapor permeability: $S_d < 5 \text{ m}$ (Class 1 – permeable)

CO₂ permeability: $S_d > 50$

Reaction to fire: Euroclass F

Exposure to stress:

Light rain: after 6 hours

Foot traffic: 24–48 hours

Water under pressure: ~7 days

Backfilling: after 3 days

Tile installation: after 1 day

Compressive strength: ≥ 20 N/mm²

Flexural strength: ≥ 9 N/mm²

Adhesion to concrete: ≥ 1,5 N/mm²

Walkability: Not recommended as a final coating

Flammability: Non-flammable

STORAGE

Store in dry and cool storage conditions at temperatures +5°C to +25°C. Protect from moisture, frost and direct sunlight.

SHELF LIFE

At least 18 months in the above-mentioned storage conditions.

Products should remain in their original unopened sealed bags, bearing the manufacturers batch number.

PACKAGING

SET of 15kg (WHITE)

SET of 37,5kg (GREY or WHITE)

HEALTH AND SAFETY INFORMATION

Consult recent Safety Data Sheet before application.

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CE MARKING	
EVOCHEM S.A. Tzavardella Place 13341, Fyli, Attica, Greece	
25	
DoP No.: 118,119	
EN 1504-2:2004	
ISOMIX HYBRID TERRALASTIC 2K	
Surface protection products - Coating	
Permeability to CO ₂	S _d >50m
Water vapor permeability	Class I (permeable)
Capillary absorption	w<0,1kg/m ² •h ^{0,5}
Adhesion	>1,0 N/mm ²
Reaction to Fire	Euroclass F
Dangerous substances	Comply with 5.3

CE MARKING	
EVOCHEM S.A. Tzavardella Place 13341, Fyli, Attica, Greece	
25	
DoP No.: 120,121	
EN 14891:2017	
ISOMIX HYBRID TERRALASTIC 2K	
Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives, CMO2P	
Initial tensile adhesion strength	≥0,5 N/mm ²
Crack bridging ability (standard conditions)	≥0,75mm
Crack bridging ability at very low temperatures (-20°C)	≥0,75mm
Tensile adhesion strength after heat ageing	≥0,5 N/mm ²
Tensile adhesion strength after water contact	≥0,5 N/mm ²
Tensile adhesion strength after contact with lime water	≥0,5 N/mm ²
Tensile adhesion strength after freeze – thaw cycles	≥0,5 N/mm ²
Tensile adhesion strength after contact with chlorinated water	≥0,5 N/mm ²
Dangerous Substances	Comply with 4.2

The directives contained in this technical data sheet are the result of our long experience from real life applications and the research testing of our research and development laboratory and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications, which are beyond our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments. We are liable only for our products for being free from faults and of consistent quality. Users are responsible for complying with local legislation and for obtaining any required approvals or authorizations. The present edition of this technical datasheet automatically cancels any previous ones concerning the same product.



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