

IZOMAX® F-tec

Under-Tile Waterproofing Membrane

Product Description

IZOMAX® F-tec is a three-layer under-tile waterproofing membrane for ceramic and natural stone coverings. Both faces consist of polypropylene non-woven, with a core of modified low density polyethylene (LDPE) membrane. It protects floors and walls against substrate cracks and moisture migration.

Fields of Application

- Interior wet rooms with moderate exposure to non-pressurised water (classes W1-I and W2-I according to DIN 18534) — bathrooms, showers, toilets
- Beneath ceramic and natural stone coverings on floors and walls
- On concrete and screed surfaces requiring crack bridging
- In kitchens and laundry rooms
- In underfloor heating systems
- On plasterboard, aerated concrete and wood-based board substrates
- On the interior surfaces of covered balconies and terraces

Advantages

- At only 0.50 mm thick, it does not raise the level of the covering
- Bridges cracks; does not transfer substrate movement to the covering
- Tiling can start 24 hours after application
- Balances water vapour transmission
- Forms a complete system with inside corner, outside corner and collar components

Technical Properties

General Information	
Material composition	PP non-woven / modified LDPE membrane / PP non-woven
Appearance	Grey three-layer membrane supplied in rolls
Thickness	0.50 mm (± 0.1 mm)
Weight per unit area	200 g/m ² (± 20 g/m ²)
Performance Data	
Resistance to water pressure (EN 1928, Method B)	≥ 1.5 bar
Burst pressure	≥ 2.0 bar
Water vapour diffusion resistance, sd (EN 1931)	≥ 75 m
Breaking load – longitudinal (EN ISO 527-3)	270 N/50 mm
Breaking load – transverse (EN ISO 527-3)	170 N/50 mm
Elongation at break – longitudinal / transverse (EN ISO 527-3)	60% / 70%
Tear resistance – longitudinal (EN 12310-2)	65 N

Tear resistance – transverse (EN 12310-2)	110 N
Bonding strength (EN 1348)	0.5 N/mm ² *
Temperature resistance	-30 °C / +90 °C
Chemical resistance	Resistant to dilute acids, alkalis, salt water and chlorine
Application Data	
Adhesive class	Minimum class C2 tile adhesive to EN 12004-1
Trowel notch (membrane bonding)	6 × 6 mm
Joints	Butt-jointed; covered with sealing tape
System components	Inside corner, outside corner, floor collar, wall collar
Waiting time before tiling	24 hours
Safety Information	
Reaction to fire class (DIN 4102-1)	B2
Hazardous substances	See SDS

* Bonding strength depends on the adhesive used; the minimum value is $\geq 0.2 \text{ N/mm}^2$. The stated technical values were obtained at +23°C ambient temperature and 50% relative humidity.

Application Instructions

Surface Preparation

The substrate must be sound, load-bearing, dry, clean and free from dust. Oil, grease, paint, curing compound residues and loose particles that impair adhesion must be removed. Voids and unevenness must be levelled with a suitable repair mortar, and absorbent surfaces must be primed with a suitable primer. Application may begin once the primer is fully dry.

Installing the Membrane

Cut the membrane to the size of the area to be covered. Apply class C2 or higher tile adhesive with a 6 × 6 mm notched trowel. Place the membrane into the fresh adhesive without trapping air and smooth it from the centre towards the edges to achieve full contact. Membrane strips are not overlapped; they are butt-jointed with no gaps. Adhesive squeezed onto the surface must be removed before it sets.

Joint and Corner Details

Membrane joints, wall-to-floor junctions, inside and outside corners and pipe penetrations are sealed with sealing tape and system components (inside corner, outside corner, floor collar, wall collar). Tapes and components are pressed into the adhesive bed so that no voids remain. Tiling must not begin before all detail work is complete.

Tiling

Tiling can start 24 hours after the membrane has been installed. Tile adhesive (class C2 minimum) is applied to the membrane surface with a suitable notched trowel. For mosaics and small-format tiles, a load distribution layer must be formed.

Points to Consider

- Not to be used in structures exposed to pressurised water or permanently submerged (swimming pools, water tanks).
- UV resistance is limited; the product must not be permanently exposed to outdoor conditions.
- Bonding strength depends on the adhesive used; a class C2 minimum adhesive must be used.
- For technical reasons, slight variations in colour and printing may occur between batches; this does not affect the technical properties.

Storage Conditions and Shelf Life

Store in the original packaging in a cool and dry place, protected from direct sunlight, with the rolls stored upright and no load placed on them. When stored correctly, the shelf life is 24 months from the date of production.

Safety Precautions

Work clothing and protective gloves complying with occupational health and safety requirements must be used during application. The product is non-toxic; however, care must be taken to protect hands and eyes during cutting. Store out of reach of children. For further information, refer to the Safety Data Sheet.

Liability

Our company is responsible only for the quality of the product. Any use of the product outside the scope of the written technical recommendations, including incorrect application or use under unsuitable conditions, is entirely the responsibility of the user. For further technical information, please refer to the product catalogue or contact our representatives.

Packaging

1000 mm × 30 m roll

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