



imperband eco

imperband eco is an eco-responsible waterproofing membrane, specially designed for waterproofing interior tiled and ceramic floors. It includes 70% recycled material.

imperband eco is a 0.5 mm thick polymeric sheet, consisting of a high-performance CPE (EVA-based Circular Polymer) membrane extruded onto polyester fibers on both sides, which allows for the direct adhesion of coverings with cement-based adhesives, at least type C2 according to EN 12004.

Recommended use

- Waterproofing of interior walls and floors before the installation of ceramic tiles and similar materials.
- Residential bathrooms, including built-in shower trays.
- Public bathrooms and showers.
- Spas and facilities in permanently humid environments.
- Outdoor balconies and terraces up to 10 m² with a maximum side length of 5m.

Materials

- All types of ceramic pavements and coverings.
- Glass mosaic
- Natural stone and marble not prone to staining

Substrates

- Cement mortar screeds and renders.
- Concrete slabs.
- Plasterboards
- Existing ceramic tiles on interior walls
- Existing ceramic tiles on residential use interior floors
- On anhydrite or plaster substrates apply **uniprim**

Before applying **imperband eco** on any ceramic floor not included in the list above, carry out a prior test or check with the Technical Department at butech.

Features

- High-performance CPE thermoplastic polyolefin membrane coated on both sides with non-woven polyester fibers.
- Includes 70% recycled material.
- Maximum waterproofing with minimum thickness (0.5 mm).
- It allows for direct laying of ceramic tiles with cement-based adhesive, at least type C2 according to EN 12004
- Good chemical resistance
- Quick and easy application

Instructions for use

Preparing the substrate.

The substrate must be dimensionally stable and non-deformable, without risk of cracking and shrinkage due to mortar curing.

Cement-based substrates must have the following characteristics:

- Residual moisture below 3%.
- Free from dust, grease, or any substance that may compromise the adhesive's bond.
- Compact, with no cracks, fully hardened.
- Rough texture, efflorescence-free.
- Level and flat, deviations under 3 mm every 2 m of surface.

Gypsum plasterboard partitions must meet the following conditions:

- The plasterboards must be rigid and well-fixed to the substrate, dry, and clean.
- No fixture or element of the board should protrude from the surface on which the coating will be applied.
- Applicable regulations for the installation of various gypsum plasterboard systems must be respected.
- The format and weight of the coating tiles must be suitable according to UNE 138002.

Installing the imperband eco sheet.

- The only recommended technique for installing **imperband eco** is doing it with the thin-bed method with notched trowel and cement-based adhesive, at least type C2 according to EN 12004, suitable for the substrate and type of covering to be laid.
- Follow thoroughly manufacturer instructions in the preparation and application of the adhesive
- Cut the **imperband eco** roll according to the measures of the substrate, taking into account the areas dedicated to the waterproofing of perimeters and the overlap between sheets.
- Glue the **imperband eco** sheets with a cement-based adhesive, at least type C2 according to EN 12004, applied with a notched trowel of a maximum of 4 mm so that the maximum adhesive thickness does not exceed 3 mm.
- Press the sheet onto the fresh adhesive with the smooth part of the trowel until the presence of air pockets is completely eliminated and as much contact as possible between the sheet and the substrate is achieved.
- Arrange the adjacent sheets one on top of the other a minimum of 10 cm and glue the overlap with the same adhesive used in the installation, avoiding the formation of gaps through which the water could filter. The overlapping should always be done following the slope.

In every junction with vertical elements, we recommend to extend the sheet over the maximum level water could reach. At least, 10 cm high. There are special pieces for reinforcing the waterproofing of corners, specially recommended in shower trays.

In the following spots, apply the waterproof band from butech:

- Internal and external corners between walls and between walls with floors, columns and in general, any change of plane of the substrate.
- Movement joints on the substrate.
- Around pipes or drainage channels.
- Contact lines between different types of substrate

Choose drainage systems with a suitable connection for imperband type sheets: a wide fixing flange around the drain and an adjustment system with O-rings. Take extreme care in the connection between the drain and imperband; if in doubt, seal with an elastic sealant.

Once the sheet installed, cover with tiles as soon as possible. In any case, protect from direct sunlight and protect from traffic which could damage the sheet.

Once the waterproofing has been completed, proceed with the installation of the covering with a C2 adhesive, according to EN 12004, compatible with the type of material chosen. Use a notched trowel suitable for the chosen tile.

Preservation

- Store in its original package, closed, in a dry place, covered and protected from direct sunlight. Maximum preservation temperature: + 30°C.

Warnings

- Do not use outdoors such as balconies or terraces larger than 10 m², facades or swimming pools.
- Do not use in waterproofings with negative water pressures.
- Not to be used in sauna ceilings, hammams and rooms with the presence of high temperature water vapor.
- Do not use on substrates subject to heavy movement.
- The only recommended laying technique is the thin-bed method with notched trowel and, at least, type C2 cement-based adhesive as per EN 12004. Do not bond with mortar applied with a trowel.
- When installing **imperband eco**, use a 4 x 4 mm notched trowel.
- Follow scrupulously all instructions for preparing and applying the adhesive.
- Working times depend on wind, moisture and temperature conditions at the work site, so the working times indicated in this sheet can change in relation to those where the laying is being carried out.
- Never step on the **imperband eco** sheet and protect it from the rest of the work carried out on-site.
- Once the **imperband eco** sheet is in place, protect it from direct sunlight.
- In shower trays, make slopes to ensure correct water drainage.
- The arrangement, width, and construction details of perimeter and intermediate movement joints, as well as the materials to be used, must be included in the ceramic installation project.
- Respect all structural joints present in the substrate. Create perimeter movement joints at corners, changes in plane of the pavement, and at the height of material changes.
- The technical information contained in this data sheet has been collected from tests in certified laboratories under the conditions indicated by the corresponding regulations.
- For further information about this product, refer to the **Technical Department at butech**.

Technical Sheet Conditions

- This data sheet does not describe a finished product; it is a fixing material which, together with other products and materials, determines a laying system. Instructions in this technical sheet have been written based on our experience and technical expertise, but they have to be only considered as general recommendations which, together with those for the rest of the products in the system, guide the laying professionals in their job.

- As it is not possible to know all the features and conditions of a building job, professionals must consider it and, if deemed appropriate, perform a previous test to confirm whether the product is suitable for the job.
- The technical sheet cannot reflect all the applications and conditions entailed in the use of a material, so, in situations not described in this sheet, we recommend to perform a previous test and refer to our technical department.
- This sheet has been updated in April, 2023.

Technical data

Characteristics	Test	Unit	Tolerance	Value
Weight	EN 1849-2	g/m ²	MDV: -5 % and + 10 %	335
Thickness	EN 1849-2	mm	MDV: -5 % and + 10 %	0,52
Water tightness	EN 1928 Mét. B		PASSES	
Tensile strength	EN 12311-2 Mét. A	N/50 mm	MLV L ≥ 450 MLV T ≥ 150	L = 450 T = 150
Elongation	EN 12311-2 Mét. A	%	MLV L ≥ 25 MLV T ≥ 200	L = 25 T = 200
Shear strength of joints	EN 12317-2	N/50 mm	MLV ≥ 600	600
Impact resistance	EN 12691	mm	MLV T ≥ 200	200
Static load resistance	EN 12730 Mét. B	Kg	MLV ≥ 20	20
Cold flexibility	EN 495-5	°C	MLV ≥ 40	-40
Fire reaction	EN 13501-1	Euroclasses		E
Length	EN 1848-2	m	MDV: -0 % and +5 %	5 and 30
Width	EN 1848-2	m	MDV: -0,5 % and + 1 %	1
Visible defects	EN 1850-2		PASSES	
Straightness	EN 1848-2	mm	MLV g ≤ 50	50
Flatness	EN 1848-2	mm	MLV p ≤ 10	10
Dimensional stability	EN 1107-02	%	MLV L ≤ -0,2 MLV T ≤ -0,7	L = -0,2 T = -0,7

MLV: Manufacturer's Limiting Value (during test). MDV: Manufacturer's Declared Value (with tolerance).

Conservation

Store in its original unopened packaging, protected from moisture, in a well-ventilated place at a maximum temperature of 30°C.

References

SAP	Product description	Packaging	Palletizing
100337140	Imperband eco 30 m	Roll 30 m ²	720 m ² / pallet
100337121	Imperband eco 5 m	Roll 5 m ²	480 m ² / pallet