



European Technical Assessment

**ETA 25/0206
of 14/03/2025**

General Part

**Technical Assessment Body issuing
the ETA:**

TECNALIA RESEARCH & INNOVATION

**Trade name of the construction
product**

IMPERBAND ECO

**Product family to which the
construction product belongs**

Watertight covering kits based on flexible
sheets for wet room floors and or walls

Manufacturer

BUTECH BUILDING TECHNOLOGY, S.A.U.
Carretera Vila-real – Puebla de Arenoso
(CV-20), km 2,5.
E-12540 Vila-real (Castellón), Spain
www.butech.es

Manufacturing plant

Plant A

**This European Technical Assessment
contains**

13 pages, including one Annex which form
an integral part of this assessment

**This European Technical Assessment
is issued in accordance with
regulation (EU) No 305/2011, on the
basis of**

EAD 030436-00-0503 Watertight covering
kits based on flexible sheets for wet room
floors and or walls

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Specific parts

1. Technical description of the product

“IMPERBAND ECO” is a watertight covering kit for wet room floors and/or walls, beneath a wearing surface, based on a flexible sheet. The kit consists of the following components:

- Flexible sheet with reference: IMPERBAND ECO.
- Corners: ÁNGULO INTERNO and ÁNGULO EXTERNO.
- Joining band: LAMI-BAND ECO.
- Adhesives:
 - ✓ Primer + Adhesive ring for sticking PVC, ABS and polyurea gullies to the sheet (SHOWER DECK).
 - ✓ Cementitious adhesive for bonding the sheet to concrete and ceramic tiles to the sheet. Improved deformable cementitious adhesive type: C2S1 according to EN 12004.
 - ✓ Polybutene based sealant for gluing PP drain.
 - ✓ SEALBUT adhesive for joints between sheets: IMPERBAND ECO, ÁNGULO INTERNO and ÁNGULO EXTERNO, LAMI-BAND ECO.

Other components that don't form part of the kit will be:

- PP, PVC, ABS and polyurea (SHOWER DECK) gullies.
- Ceramic tiles: suitable for showers, according to the intended use and manufacturer's requirements.

Technical data sheets of the different components of the kit can be found on Annex 1.



2. Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

2.1 Intended use

The product is used as watertight covering kit for indoor applications, for use beneath a wearing surface, where the kit is not exposed to temperatures (i.e. temperature of structure) below 5 °C and above 40 °C, in the following uses:

- Floor and/or wall surfaces with only occasional direct exposure to water, e.g. at a good distance from shower or bathtub.
- Floors and/or walls in shower areas or around bathtubs used for a few showers daily, e.g. in ordinary dwellings, multi-family houses and hotels
- Floor and/or wall surfaces with exposure to water more frequent or of longer duration than normally anticipated in dwellings, e.g. public wet rooms, schools and sport facilities.

The kit has been assessed for:

- Moisture sensitive substrates. Substrates (usually “flexible”) not susceptible to cracking but with jointing.
- Non moisture sensitive substrates. Substrates (usually “rigid”), homogenous but susceptible to cracking.

2.2 Working life

The provisions made in this ETA are based on an assumed working life of 25 years as minimum, provided that the kit is subject to appropriate use and maintenance.

The indications given as to the working life of a watertight covering kit cannot be interpreted as a guarantee given by the producer or the Assessment Body. They should be regarded only as a means for choosing the appropriate criteria for watertight covering kits in relation to the expected economically reasonable working life of the works.

3. Performance of the product and references to the methods used for its assessment

The following table shows how the performance of the kit have been assessed in relation to the essential characteristics according to the EAD 030436-001-0503 *Watertight covering kits based on flexible sheets for wet room floors and or walls*.

| ESSENTIAL CHARACTERISTICS | PERFORMANCE | | |
|--|--------------------------------|----------------------------|------------|
| Basic Works Requirement 2: Safety in case of fire | | | |
| Reaction to fire | Not assessed | | |
| Basic Works Requirement 3: Hygiene, health and the environment | | | |
| Content, emission and/or release of dangerous substances | Not assessed | | |
| Vapour permeability | Not assessed | | |
| Water tightness | Watertight | | |
| Crack bridging ability | Category 3 (Crack with 1,5 mm) | | |
| Bond strength | Concrete | Category 3 | |
| | Gypsum Board | Category 1 | |
| Scratching resistance | Not relevant | | |
| Joint bridging ability | The kit can bridge joints | | |
| Water tightness around penetrations | Watertight | | |
| Resistance to temperature | Longitudinal | F _{max} (N/50 mm) | 492 ± 15 |
| | | ε _{Fmax} (%) | 36,2 ± 0,9 |
| | Transversal | F _{max} (N/50 mm) | 151 ± 5 |
| | | ε _{Fmax} (%) | 217,9 ± 7 |
| Resistance to water | Category 3 | | |
| Resistance to alkalinity | Category 1 | | |
| Resistance to mechanical wear | Not relevant | | |



| ESSENTIAL CHARACTERISTICS | PERFORMANCE |
|---|--------------|
| Joint strength | Not assessed |
| Flexibility | Not assessed |
| Basic Works Requirement 4: Safety in use | |
| Slipperiness | Not relevant |
| Cleanability | Not relevant |
| Thickness (mm) | 0,51±0,01 |



4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

According to the European Commission Decision 2003/655/, the applicable AVCP system is 2 + except for uses subject to regulations of reaction to fire. For uses subject to regulation on reaction to fire the applicable AVCP systems is 4.

The AVCP system are described in Annex V of Regulation (EU) N° 305/2011, as amended by Delegated Regulation (EU) N° 568/2014.

5. Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the Assessment and Verification of Constancy of Performance (AVCP) system are laid down in the control plan deposited at Tecnalia Research & Innovation.

The Control Plan is a confidential part of the ETA and is only handed over to the notified body involved in the assessment and verification of constancy of performance.

Issued in Azpeitia, on 14/03/2025



Miguel Mateos
Innovation and Conformity Assessment Point
Tecnalia Research & Innovation

Annex 1 Technical data sheets of the components

Technical data sheet IMPERBAND ECO

butech
PORCELANOSA Grupo

Date: 01/01/2023

DESCRIPTION

IMPERBAND ECO membrane for waterproofing under protection layer of small flat walkable roofs (balconies and terraces) and bathrooms, walls and floors in interior wet areas. It is composed of a polymeric membrane of high-performance thermoplastic polyolefins CPE (EVA-based Circular Polymer), resulting from the transformation and treatment of circular economy raw materials, and extruded on polyester fibers.



FEATURES

| Features | Test Method | Unit | Tolerance | Value |
|-------------------------------|--------------------|------------------|------------------------------|----------------------|
| Weight | EN 1849-2 | g/m ² | MDV: -5% y + 10% | 335 |
| Thickness | EN 1849-2 | mm | MDV: -5% y + 10% | 0,52 |
| Water tightness | EN 1928 Mét.B | | | Pass |
| Tensile strength | EN 12311-2 Meth. A | N/50 mm | MLV L ≥ 450 MLV T ≥ 150 | L = 450 T = 150 |
| Elongation | EN 12311-2 Meth. A | % | MLV L ≥ 25 MLV T ≥ 200 | L = 25 T = 200 |
| Overlap resistance | EN 12317-2 | N/50 mm | MLV ≥ 600 | 600 |
| Impact resistance | EN 12691 | Mm | MLV T ≥ 200 | 200 |
| Static load resistance | EN 12730 Meth. B | Kg | MLV ≥ 20 | 20 |
| Pliability at low temperature | EN 495-5 | °C | MLV ≥ 40 | -40 |
| Reaction to fire | EN 13501-1 | Euroclass | | E |
| Length | EN 1848-2 | mm | MDV: -0% and +5% | 5 and 30 |
| Width | EN 1848-2 | mm | MDV: -0,5% and +1% | 1, 1,2 and 1,5 |
| Visible defects | EN 1850-2 | | | Pass |
| 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. MDV: Manufacturer's Declared Value.

STORAGE

Store in original unopened packing, protect from moisture, in place properly ventilated at a maximum temperature of 30°C. Protect from direct sunlight.

butech BUILDING TECHNOLOGY, S.A.U.

Ctra. Vila-real - Puebla de Arenoso (CV-20), Km. 2,5 - Apartado de Correos 297 - 12540 Villarreal, Castellón - ESPAÑA.
Teléfono (+34) 964 53 62 00 - Fax: (+34) 964 53 00 34 - E-mail: butech@buteches - www.buteches

Technical data sheet INTERNAL y EXTERNAL ANGLE

Date: 01/01/2023

DESCRIPTION

Waterproof reinforcement corners IMPERBAND ECO with thermoformed corner to cover indoor and outdoor 90° and 270° angles.



Internal angle



External angle

FEATURES

| Features | Test Method | Unit | Tolerance | Value |
|-------------------------------|--------------------|------------------|------------------------------|---------------------------|
| Wright | EN 1849-2 | g/m ² | MDV: -5% y + 10% | 335 |
| Thickness | EN 1849-2 | mm | MDV: -5% y + 10% | 0,52 |
| Water tightness | EN 1928 Mét.B | | | Pasa |
| Tensile strength | EN 12311-2 Meth. A | N/50 mm | MLV L ≥ 450 MLV T ≥ 150 | L = 450 T = 150 |
| Elongation | EN 12311-2 Meth. A | % | MLV L ≥ 25 MLV T ≥ 200 | L = 25 T = 200 |
| Overlap resistance | EN 12317-2 | N/50 mm | MLV ≥ 600 | 600 |
| Impact resistance | EN 12691 | Mm | MLV T ≥ 200 | 200 |
| Static load resistance | EN 12730 Meth. B | Kg | MLV ≥ 20 | 20 |
| Pliability at low temperature | EN 495-5 | °C | MLV ≥ 40 | -40 |
| Reaction to fire | EN 13501-1 | Euroclass | | E |
| Length | EN 1848-2 | mm | MDV: -0% and +5% | See dimensions in picture |
| Width | EN 1848-2 | mm | MDV: -0,5% and +1% | See dimensions in picture |
| Visible defects | EN 1850-2 | | | Pass |
| 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. MDV: Manufacturer's Declared Value.

STORAGE

Store in original unopened packing, protect from moisture, in place properly ventilated at a maximum temperature of 30°C.
Protect from direct sunlight.

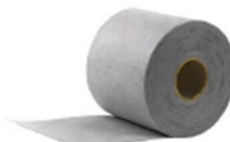
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Ctra. Vila-real - Puebla de Arenoso (CV-20), Km. 2,5 - Apartado de Correos 297 - 12540 Villarreal, Castellón - ESPAÑA.
Teléfono (+34) 964 53 62 00 - Fax: (+34) 964 53 00 34 - E-mail: butech@butech.es - www.butech.es

Technical data sheet LAMI-BAND ECO

DESCRIPTION

Waterproof strip for joints.

LAMI-BAND ECO waterproof membrane is presented in a strip roll for covering and sealing the joints and encounters between IMPERBAND ECO membrane. It must be used along with SEALBUT adhesive.



FEATURES

| Features | Ensayo | Unidad | Tolerancia | Valor |
|-------------------------------|--------------------|------------------|------------------------------|----------------------|
| Wright | EN 1849-2 | g/m ² | MDV: -5% y +10% | 335 |
| Thickness | EN 1849-2 | mm | MDV: -5% y +10% | 0,52 |
| Water tightness | EN 1928 Mét.B | | | Pasa |
| Tensile strength | EN 12311-2 Meth. A | N/50 mm | MLV L ≥ 450 MLV T ≥ 150 | L = 450 T = 150 |
| Elongation | EN 12311-2 Meth. A | % | MLV L ≥ 25 MLV T ≥ 200 | L = 25 T = 200 |
| Overlap resistance | EN 12317-2 | N/50 mm | MLV ≥ 600 | 600 |
| Impact resistance | EN 12691 | Mm | MLV T ≥ 200 | 200 |
| Static load resistance | EN 12730 Meth. B | Kg | MLV ≥ 20 | 20 |
| Pliability at low temperature | EN 495-5 | °C | MLV ≥ 40 | -40 |
| Reaction to fire | EN 13501-1 | Euroclass | | E |
| Length | EN 1848-2 | m | MDV: -0% and +5% | 30 |
| Width | EN 1848-2 | mm | MDV: -0,5% and +1% | 127, 300 y 480 |
| Visible defects | EN 1850-2 | | | Pass |
| 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. MDV: Manufacturer's Declared Value.

STORAGE

Store in original unopened packing, protect from moisture, in place properly ventilated at a maximum temperature of 30°C. Protect from direct sunlight.

butech BUILDING TECHNOLOGY, S.A.U.

Ctra. Vila-real - Puebla de Arenoso (CV-20), Km. 2,5 - Apartado de Correos 297 - 12540 Villarreal, Castellón - ESPAÑA.
Teléfono (+34) 964 53 62 00 - Fax: (+34) 964 53 00 34 - E-mail: butech@butech.es - www.butech.es

Technical data sheet SEALBUT

Fecha: 01/01/2023

DESCRIPTION

Elastic adhesive suitable for sealing and bonding joints. Based on high quality silane-modified polymers, single component, high modulus. Remains elastic after set. Excellent adhesion and chemical resistance. Product free of isocyanates and silicones, with very low emissions of organic compounds volatile, respects the environment and the health of users.

SEALBUT 6

Practical yield of 6 kg pot \approx 40-45 m² of surface.

Theoretical yield: 1 kg \approx 7,5 metres of joint.



SEALBUT 0600

Practical yield of blister: 600 ml \approx 5-6 m² of surface.

Theoretical yield: 600 ml \approx 5,5-6 metres of joint.



FEATURES

- Package: 6 kg can / 600 ml blister.
- Conservation \approx 12 months in original unopened packing.
- Warnings: avoid direct exposure to sunlight and sources of heat.
- Temperature limit: apply from +10°C to +35°C and with residual moisture content < 80%.
- Open time \approx 60 minutes at 23°C and with residual moisture content 50%.
- Foot traffic \approx from 12 h to 24 h.
- Interval before normal use \approx 3 days.

| Product features | Test method | Unit | Value |
|---------------------|-------------|-------------------|---------------|
| Density | UNE-EN 542 | g/cm ³ | 1,60-1,64 |
| Tensile strength | DIN 53504 | N/mm ² | <2 |
| Elongation at break | DIN 53504 | % | 200-400 |
| Hardness Shore A | DIN 53505 | SHORE A | 45-55 |
| Thermal resistance | | °C | De -20 a + 80 |

Values taken at +23°C temperature, 50% R.H. and no ventilation. They may vary depending on the specific site conditions: temperature and absorption of the support.

INSTRUCTION

Apply from +10°C to +35°C and with residual moisture content < 80%. Apply evenly over the Revestech membrane, using a suitable spreader (without tooth), pressing down hard enough to ensure full contact the membrane with the adhesive. Gloves should be worn during application. Once applied, the product must not be exposed to UV radiation for more than one week.

STORAGE

Store in original unopened packing, protect from moisture, in a properly ventilated place at a maximum temperature of 30°C.

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Ctra. Vila-real - Pueblos de Arenoso (CV-20), Km. 2,5 - Apartado de Correos 297 - 12540 Villarreal, Castellón - ESPAÑA.
Teléfono (+34) 964 53 62 00 - Fax: (+34) 964 53 00 34 - E-mail: butech@butech.es - www.butech.es



Technical data sheet ADHESIVE RING

butech
PORCELANOSA Grupo

Fecha: 01/01/2023

DESCRIPTION

Thermoweldable sheet formed by polyurethane adhesive with both sides covered by polyester fibre.

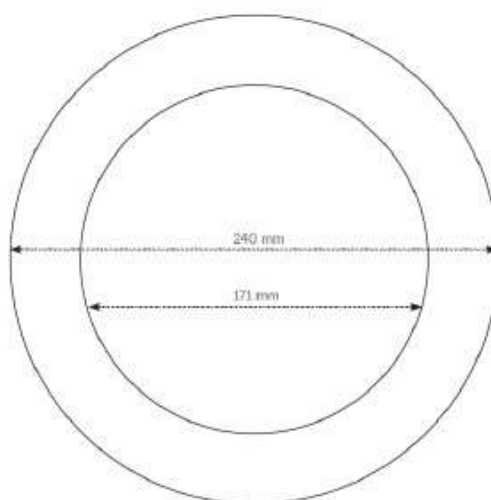
FEATURES

| Features | Unit | Value |
|-----------------------|------|-----------|
| Measurements | mm | See below |
| Softening temperatura | °C | 62-66 |
| Process temperature | °C | 130-160 |

STORAGE

Store in original unopened packing, protect from moisture, in place properly ventilated at a maximum temperature of 30°C. Protect from direct sunlight.

DETAILS



butech BUILDING TECHNOLOGY, S.A.U.

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Technical data sheet POLYBUTENE ADHESIVE

butech
PORCELANOSA Grupo

Date: 01/01/2023

DESCRIPTION

Polybutene tape for joint sealing.

FEATURES

| Features | Test Method | Unit | Value |
|-------------------------------|-------------------|-------------------|------------------|
| Thickness | ASTM D-3652 | mm | 0,8 |
| Weight | EN 1849-2 | g/m ² | 50 |
| Watertight | EN 1928 + EN 1847 | | Pass |
| Tensile strenght | EN 12311-2 | N/mm ² | L ≥ 4 T ≥ 4 |
| Elongation at break | EN 12311-2 | % | L ≥ 50 T ≥ 50 |
| Adhesion to Steel | ASTM D-3330 | N/cm | ≥ 11 |
| Impact resistance | EN 12691 | mm | 150 |
| Static load resistance | EN 12730 Method B | Kg | < 5 |
| Tear strength | EN 12310-2 | N | L ≥ 40 T ≥ 60 |
| Strength of unión | EN 12317-2 | N/cm | ≥ 240 |
| Ashesion strength | ASTM D-6195 | N | ≥ 33 |
| Moisture resistance factor | EN 1931 | µm | 170000 |
| Application temperatura range | INTERNAL | °C | [+5 °C, +35 °C] |
| Operating temperature range | INTERNAL | °C | [-20 °C, +80 °C] |

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Teléfono (+34) 964 53 62 00 - Fax: (+34) 964 53 00 34 - E-mail: butech@butech.es - www.butech.es

