

Litoband Basic

SEALING TAPE FOR WATERPROOFING SYSTEMS FOR
INTERIORS AND EXTERIORS.



DESCRIPTION

Litoband Basic is a waterproofing sealing tape for use in indoor and outdoor areas, made from a waterproof and vapour-proof thermoplastic elastomer, with an alkali-resistant fabric backing. For the perfect sealing of corners, special pre-shaped Litoband pieces are available for internal (IC) and external (EC) corners, made using the same material.

ADVANTAGES / FEATURES

- Suitable for use in severe operating conditions (from -30°C to +90°C)
- Excellent chemical resistance against many aggressive chemicals (see table)
- Usable with all types of waterproofing membranes such as Elastocem, Coverflex and Hidroflex

PACKAGING

Litoband Basic:

10 and 50 m rolls

Litoband Basic for internal (IC) and external (EC) corners:

25 pc boxes

FIELDS OF APPLICATION

Litoband Basic and pre-shaped IC and EC corners are used as reinforcing elements together with Elastocem, Coverflex and Hidroflex waterproofing membranes to seal corners in indoor and outdoor areas.

Typical applications include:

- Waterproofing of wall-to-wall and wall-to-floor corners in areas such as bathrooms, showers, etc. to be waterproofed with Elastocem, Coverflex and Hidroflex.
- Waterproofing of expansion joints on balconies and terraces, wall-to-wall and wall-to-floor corners
- Waterproofing of reinforced concrete structures such as swimming pools, fountains, etc., prior to installing ceramics or mosaics

WATERPROOFING PLANNING

The only way to guarantee the long-lasting performance of ceramic and porcelain tile installations is to properly plan the process. It is therefore advisable to consult the national regulations in force in each country, for example standard UNI 11493 in Italy, which provides all necessary instructions regarding the choice of materials, correct planning, use and installation, so as to ensure all quality, performance and durability standards are safely met.

When installing large tiles or low thickness laminated porcelain stone slabs, we recommend paragraphs 7.13.8 and 7.13.9 of regulation UNI 11493 be carefully read. Moreover, certain producers of thin slabs provide installation manuals indicating the adhesive classes that need to be used depending on the size, characteristics and intended use of the slabs.

Some of the general precautions that need to be followed are listed below as an example.

Substrates

Before installation, check that substrates are clean, free of loose fragments, properly dried and cured, flat and level, and that mechanical strength requirements based on the intended use have been met.

Before application, use a hygrometer to check that the residual humidity in the substrate is maximum 3% CM; on anhydrite screeds maximum 0.5% CM; on anhydrite screeds with heating systems maximum 0.2% CM. (CM = measurement with carbide method hygrometer).

Worksite conditions

Check the suitability of the temperature, humidity, light conditions etc. at the time of the product's application. In the case of particularly warm climates ($T > 35^{\circ}\text{C}$), perform installation in the early hours of the morning.

Materials

Check that all materials used for tiling (ceramic materials, levelling systems, adhesives, grouts, waterproofing

products, etc.) are suitable for the intended use and have been correctly stored.

Expansion joints

Check that the perimeter, expansion, divider and structural elastic joints have been correctly designed and prepared. Divider joints are normally needed for 20/25 m² indoor sections, and 9-15m² outdoor sections. For exteriors, make sure joints are properly waterproofed and sealed.

Expansion joints must be waterproofed by inserting the Litoband Basic sealing tape, omega-folded inside the joint. To reduce the thickness, allowing the silicone sealant to adhere only to the sides of the tiles, insert the Litogap compressible tubing first, in a diameter suited to the width of the joint. Litokol proposes the neutral cross-linking silicone sealant, Ottoseal S70 for the sealing of elastic joints on terraces, balconies and in swimming pools. To guarantee long-lasting sealing, it is advisable to treat the edges of the joint with Ottoprimer 1216 in the case of balconies and terraces, and Ottoprimer 1218 in the case of tanks and swimming pools.

When waterproofing indoor wet areas such as bathrooms and shower enclosures, or external areas such as balconies, terraces and swimming pools, critical points such as corners, drains, pipework and expansion joints must be very carefully sealed.

Litokol proposes a wide range of sealing elements that must be laid between the first and second coat of the waterproofing membrane. This range includes the following items:

Litoband Basic: sealing tape with a double layer of polypropylene fabric and waterproof thermoplastic elastomer film inside, for corner and expansion joints.

Litoband Basic for internal (IC) and external (EC) corners: pre-shaped elements for corner waterproofing in non-woven fabric and lined with waterproof rubber.

Litoband SK Self-Adhesive Drains Collar: drain gasket in self-adhesive butyl, resistant to ageing for the waterproofing of drains in different sizes and materials (PVC, metal). Suitable for applications in the presence of low pressure water.

Litoband SK Pipes Collar: special gaskets for pipework made from a non-woven fabric with a flexible membrane at the centre, for the waterproofing of pipework with various diameters.

APPLICATION

Apply the waterproofing membrane to the corners of the environments that need to be waterproofed, in a thickness of at least 1 mm; then apply the Litoband Basic sealing tape and pre-shaped corners on the fabric side, using a trowel and applying firm pressure to prevent the formation of air bubbles or folds.

Make sure that the waterproofing membrane has not formed a film on the surface preventing the tape's adhesion.

When used on joints, the Litoband Basic tape must be omega folded so it can absorb any tension.

In this case, the waterproofing membrane will need to cover the sides of the tape and a few mm of the yellow waterproof part.

The Litoband tape must overlap any pre-shaped corners by a few centimetres.

After the first coat has dried, a second coat of waterproofing membrane must be applied to completely cover the Litoband elements.

WARNINGS

- For more details on waterproofing indoor and outdoor wet areas, refer to the instructions in the Litokol User catalogue
- Protect the waterproofing against rain for the first 24 hours after application
- The product must not be visible upon completion. Always apply a ceramic, natural stone or mosaic covering
- In warm climates, keep the packaged product in a cool and dry place away from the sun before use
- Do not use the product for applications not stated in this technical sheet
- If in doubt, contact the Litokol S.p.A Technical Help Service.

SAFETY INFORMATION

Based on European Regulations (Reg. 1907/2006/EC - REACH) the product is considered an article and therefore does not require safety data sheets.

PRODUCT FOR PROFESSIONAL USE

ITEM SPECIFICATION

#For the reinforced waterproofing of wall-to-wall and wall-to-floor corners in indoor and outdoor areas, waterproof sealing tape must be inserted made from a thermoplastic elastomer coupled with an alkali-resistant fabric, such as Litoband Basic by Litokol S.p.A.

IDENTIFICATION DATA

Composition of material	Elastomeric fabric
Colour	Yellow and white
Roll length	10 - 50 m
Width of waterproof layer	70 mm
Total width	120 mm
Side length of internal (IC) and external (EC) corners	130 - 500 mm
Weight	400 g/m ²
Thickness	0.6 mm
Tape customs code	56039410
Corners customs code	63079098
Shelf life	Unlimited in original packaging in a dry place

APPLICATION DATA

Recommended application temperatures	From +5°C to +35°C
Temperature of use	From -5°C to +90°C

PERFORMANCE

Tensile strength	> 4.2 MPa	DIN EN ISO 527-3
Elongation at break	> 110%	DIN EN ISO 527-3

CHEMICAL RESISTANCE TABLE

Active substance	(+ = resistant / 0 = weakened / - = non-resistant)	
Hydrochloric acid at 3%	+	Internal method
Sulphuric acid at 35%	+	Internal method
Citric acid 100 g/l	+	Internal method
Lactic acid at 5%	+	Internal method
Potassium Hydroxide at 3%	+	Internal method
Potassium Hydroxide at 20%	+	Internal method
Sodium hypochlorite 0.3 g/l	+	Internal method
Salt water (20g/l Sea salt water)	+	Internal method

NOTES

Data detection at temperature +23 °C, R.H. 50% and with no wind. May vary depending on the specific conditions of the installation site.

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The information and provisions contained in this technical data sheet reflect our best experience. Given the impossibility of directly intervening on the conditions of the work site and execution of the works, they represent indications of a general nature, which are in no way binding on our Company. It is therefore recommended to perform a spot test in order to check the suitability of the product for the intended use. In any case, those who intend to use the product must establish whether or not it is suitable for the intended use, and in any case assume all liability for any consequences resulting from such use.

Litokol S.p.A.
Via G. Falcone 13/1
42048 Rubiera (RE) Italy
Tel. +39 0522 622811
Fax +39 0522 620150
info@litokol.it

www.litokol.it

