



# Mapeband Flex Roll

## Tape for the flexible waterproofing of expansion joints and cracks

### DESCRIPTION

Tape for waterproofing expansion joints, construction joints and cracks.

### WHERE TO USE

**Mapeband Flex Roll** is highly versatile and may be used wherever water and moisture penetrates through structural elements, such as:

- structural elements in contact with the ground;
- basements and underground garages;
- storage tanks;
- drains and depuration plants;
- swimming pools;
- mines and tunnels;
- power stations;
- roofs and façades.

### TECHNICAL CHARACTERISTICS

- Heat-weldable.
- High expandable.
- Excellent adhesion to epoxy adhesives such as **Adesilex PG4**, **Adesilex PG2** or **Adesilex PG1**.
- Flexible and deformable (including at low temperatures) with good tensile properties.

- Easy to apply.
- Rapid application, safe and non-hazardous for users.
- High watertightness.
- Good resistance to root penetration according to FLL test procedures.
- Long-term resistance to microbes and hydrolysis.
- High resistance to UV rays, atmospheric agents and ageing.
- Good resistance to a wide range of chemical products.
- Non-flammable.

### APPLICATION PROCEDURE

All joints to be waterproofed must be clean, free from all traces of dust, rust, oil and grease and any areas which are either uneven or loose.

Apply **Mapeband Flex Roll** on surfaces using **Adesilex PG4**, **Adesilex PG2** or **Adesilex PG1** two-component, thixotropic, epoxy adhesives.

Firstly apply a 1-2 mm thick uniform layer of adhesive with a smooth trowel; avoid applying the adhesive inside the joint.

Lay **Mapeband Flex Roll** by pressing lightly along the sides of the tape. Make sure that all wrinkles and creases are eliminated and that air bubbles are not formed. Apply a second layer of **Adesilex PG4**, **Adesilex PG2** or **Adesilex PG1** while the first one is

# Mapeband Flex Roll



Sealing structural joints in retaining walls

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Thickness (EN 1849-2) (mm):	2.0
Mass per unit area (EN 1849-2) (g/m <sup>2</sup> ):	1,900
Permeability to water vapour (EN 1931):	$\mu = 30,000$
Material:	TPE
Surface:	smooth
Colour:	light grey
Tensile strength (EN 12311-2) (MPa):	$\geq 8$ (longitudinal)
	$\geq 6$ (transversal)
Elongation at failure (EN 12311-2) (%):	$\geq 400$ (longitudinal and transversal)
Tear strength (EN 12310-2) (N):	$\geq 50$ (longitudinal and transversal)
Watertightness (EN 1928) (bar):	up to 8
Service temperature (SIA V289/3-4):	from -30°C up to maximum +70°C
Foldability at low temperature (EN 495-5):	$\leq -30^\circ\text{C}$
Resistance to UV rays (EN 1297):	pass (> 5000 h/grado 0)
Reaction to fire (EN 13501-1) (Euroclass):	E
Hardness Shore A (ISO 868):	approx. 80

still fresh (wet-in-wet), completely covering the sides of the tape with the new layer of adhesive. Smooth off the product with a flat trowel and sprinkle on a layer of **Quartz 0,5** to create a rough surface.

When the pieces of tape are joined by heat-welding, overlap the edges by at least 30 mm and secure them in position by spot welding them at a temperature of approx. +360°C. Then, during welding operations, the nozzle must advance slowly and the joint must be pressed with a roller immediately after completing the weld.

When the tape is in service, it must be protected against mechanical wear and temperatures constantly above +70°C.

### PACKAGING

Width: 200/300/400/600/800 mm.

Thickness: 2 mm.

Length of roll: 20 m.

### STORAGE

Store **Mapeband Flex Roll** in a dry, dust-free area protected from aggressive chemicals at a temperature of -5°C to +35°C.

## **SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION**

**Mapeband Flex Roll** is an article and referring to the current European regulations (Reg. 1906/2007/EC - REACH) does not require the preparation of the Safety Data Sheet. During use it is recommended to wear gloves and goggles and follow the safety requirements of the workplace.

PRODUCT FOR PROFESSIONAL USE.

### **WARNING**

*Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.*

Please refer to the current version of the Technical Data Sheet, available from our website [www.mapei.com](http://www.mapei.com)

## **LEGAL NOTICE**

***The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.***

***The most up-to-date TDS can be downloaded from our website [www.mapei.com](http://www.mapei.com).***

***ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.***



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gesellschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.

**All relevant references  
for the product are available  
upon request and from  
[www.mapei.com](http://www.mapei.com)**

# Mapeband Flex Roll



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# Mapeband Easy

**Rubber tape sandwiched between two layers of non-woven fabric to form elastic joints in waterproofing systems**



## WHERE TO USE

- Waterproofing corners between adjacent walls and between walls and floors.
- Waterproof elastic control joints on terraces, balconies, etc.

## TECHNICAL CHARACTERISTICS

**Mapeband Easy** is made from a central core of vapour-proof and waterproof elastic rubber sandwiched between two layers of alkali-resistant, non-woven polypropylene fabric.

**Mapeband Easy** is elastic and deformable and has a series of holes along the edges to improving wetting with the waterproofing product applied.

**Mapeband Easy** is used in combination with various waterproofing products, such as products from the **Mapelastic** range, **Monolastic**, **Mapegum WPS** and products from the **Aquaflex Roof** range.

## ADVANTAGES

- Highly elastic with elongation at failure of more than 300%.
- Easy to apply thanks also to the holes along the edges.
- Thanks to the seamless outer layers of non-woven fabric, joints between different pieces of tape may be formed directly with the chosen waterproofing product.
- May be coated with the chosen waterproofing product or with the adhesive used to bond floor or wall coverings.

## RECOMMENDATIONS

- To form a perfect seal in corners and around edges, use the special, pre-formed 90° and 270° pieces from the **Mapeband Easy** range.
- To form a perfect seal around pipework, use the special **Mapeband Easy** templates.

## APPLICATION PROCEDURE

Apply a coat of the chosen waterproofing product along the corners and edges and along the sides of the expansion joints to be waterproofed with **Mapeband Easy**. Apply the tape and make sure it is correctly positioned, with no folds, creases or air bubbles, and that the waterproofing product comes out through the holes along the edges of the tape. When applying **Mapeband Easy** around control joints in screeds (on terraces, for example), the tape must be positioned so that it sits over the joint.

Joints between different pieces of **Mapeband Easy** must overlap at least 5 cm and be bonded with the chosen waterproofing product.

Once **Mapeband Easy** has been applied over and/or around all the joints the chosen waterproofing product may be applied.

Apply the waterproofing product in a seamless layer over **Mapeband Easy**, except when the waterproofed surface is to be coated with tiles, stone or mosaics. In such cases, apply the waterproofing product on the control joints, over **Mapeband Easy** apart from the central part (marked out with a dotted line) so that the joint can be located; there must also be a joint in the same position in the floor or wall covering.

# Mapeband Easy



Mapeband Easy applied around a control joint in the screed

## TECHNICAL DATA (typical values)

### PRODUCT IDENTITY

Type of material:	rubber sandwiched between two layers of non-woven polypropylene fabric
Thickness (EN 1849-2) (mm):	0.68
Weight (EN 1849-2) (g/m <sup>2</sup> ):	285
Tensile strength (EN ISO 527-3) (N/15 mm):	45
Elongation at failure (EN ISO 527-1) (%):	315
EMICODE:	EC1 Plus - very low emission

In all cases, including when **Mapeband Easy** is completely coated with the waterproofing product, there must be a break in any reinforcement mesh applied between the two layers of waterproofing product in correspondence with the edges of **Mapeband Easy**, so that it is left free to move with the joint.

### PACKAGING

- 30 m long by 130 mm wide rolls.
- 10 m long by 130 mm wide rolls.
- 90° and 270° angular pieces.
- Templates to make through holes (200 x 200 mm and 400 x 400 mm).

### SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

**Mapeband Easy** is an article that, according to current European Regulations (Reg. 1906/2007/EC - REACH), does not require a Safety Data Sheet. When using this product we recommend wearing gloves and safety goggles and follow the safety guidelines for the area in which work is carried out.

PRODUCT FOR PROFESSIONAL USE.

### WARNING

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