



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



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 ²):	1,900
Permeability to water vapour (EN 1931):	$\mu = 30,000$
Material:	TPE
Surface:	smooth
Colour:	light grey
Tensile strength (EN 12311-2) (MPa):	≥ 8 (longitudinal)
	≥ 6 (transversal)
Elongation at failure (EN 12311-2) (%):	≥ 400 (longitudinal and transversal)
Tear strength (EN 12310-2) (N):	≥ 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):	≤ -30°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

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.

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**

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