

# 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.
- Certified for contact with potable water (AS/NZS 4020:2018).

## 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 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 and 300 mm rolls 400/600/800 mm wide rolls available by special order.
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.



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/m²):	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

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