

Merks FlexBand DB 878

Construction Chemicals > Water Insulation Auxiliary Products > Dilatation Tape



A high-performance, thermoplastic elastomer (TPE) and polyolefin (FPO)-based ready-to-use tape that ensures the sealing and closure of expansion (dilatation) and construction joints.

■ Fields of Application

- In all underground applications (horizontal and vertical)
- In water tanks, treatment plants, and pools
- In both indoor and outdoor areas
- In all types of engineering structures such as tunnels and underpasses
- In parking lots and shopping centers
- In horizontal and vertical expansion joint applications
- On terraces

■ Advantages

- Easy to apply
- When applied by bonding with Repoc Eb 456 epoxy-based repair mortar in expansion joints, it provides the ideal system for waterproofing
- Ensures continuity in waterproofing
- Provides elasticity, even in cold conditions
- Has high tear resistance

1 Surface Preparation

Weak concrete should be removed, and holes should be exposed. The surface must be clean, dry, and solid. Any dirt and dust that may negatively affect the adhesion of the Repoc EB 456 Epoxy repair and bonding mortar used to attach the tape must be cleaned. Damaged surfaces should be repaired with structural repair mortar.

2 Application

The joint is cut using a FlexBand DB 878 utility knife according to its length. Optionally, a polyethylene joint sealant slightly larger than the expansion width can be pressed into the joint. Preferably, an omega shape can be created. A two-component epoxy-based Repoc EB 456 is mixed and applied to both concrete surfaces with a trowel. Both sides of the FlexBand DB 878 are cleaned with a solvent and then placed on the expansion joint in an omega shape. During application, the adhesive epoxy should rise from the holes on the sides of the FlexBand DB 878. Both sides of the band are then re-adhered with Repoc EB 456 on top. The ends of the tape should be overlapped by 10 cm and bonded using hot air welding, followed by sealing with mastic.

3 Packaging

The 25-meter roll is available in thicknesses of 1 mm, 1.50 mm, and 2 mm. It comes in widths of 100 mm, 150 mm, 200 mm, 250 mm, 300 mm, and 400 mm.

4 Storage Lifespan

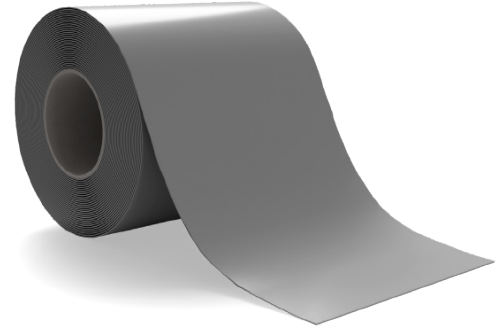
Minimum 12 months in sealed packaging.

5 Precautions

- Care should be taken to ensure that adhesive does not come into contact with the flexible part
- It is recommended to use joint filler before applying the tape.
- Before, during, and after application, care should be taken to prevent piercing tools from damaging the product.
- Do not approach with fire

6 Consumption Amount

1 mt/mt



TECHNICAL DATAS

Property	Value	Standard
Tensile Strength (Transverse)	4.8 MPa	EN-ISO 527-3
Tensile Strength (Longitudinal)	4.9 MPa	EN-ISO 527-3
Elongation at Maximum Load (Transverse)	%585	EN-ISO 527-3
Elongation at Maximum Load (Longitudinal)	%535	EN-ISO 527-3
Tear Resistance (Transverse)	49 N/mm ²	EN-ISO 12310-2
Tear Resistance (Longitudinal)	43 N/mm ²	EN-ISO 12310-2
Hardness	70 Shore A	ISO 868
Chemical Resistance	Water-based and bitumen-based waterproofing, Seawater, Wastewater, UV rays, Hydrolysis, Microorganisms	
Color	RAL 7040	
Water Pressure Resistance	> 5 Bar	EN 1928
Cold Folding	No Cracks at -30°C	SIA 280/3
Service Temperature	-30 / +80°C	SIA V280/3+4
Thickness	1-1,5-2 mm	
Weight	1,050 ± %5 g/cm ²	