

# Chelfix Dilatation Tape

Thermoplastic Elastomer based Tape for Elastic, Permanent Protection of Structural Dilatation, Joints and Cracks

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## Product Description

Chelfix Dilatation Tape is a high performance thermoplastic elastomer based, waterproofing dilatation tape used for sealing and insulation of wall and floor joints and all kinds of expansion joints.

## Areas of Application

- Foundation and curtain concrete, building dilatations.
- Indoors and outdoors.
- In all kinds of engineering constructions such as dam, highway, tunnel, metro.
- Expansion and dilatation joints, steel, reinforcement and concrete cracks.
- In underground garages and multi-story parking terraces.
- In the water depot, pool, parking and shopping centers.
- In high-moving joints.
- In horizontal and vertical applications in expansion joints.
- Inside and outside radial base curtain joints.
- It is applied in outdoors, in structural separations and in the isolation of construction joints.
- In pools, water tanks, silos and ponds.
- It is applied under areas covered with a suitable adhesive or sealing material.
- It is used in treatment plants.



## Advantages

- It is applied quickly and easily.
- Provides water insulation in expansion joints.
- It is odorless and highly resistant to chemicals.
- It is pasted with Chelfix Bond 405D to solve the details of horizontal and vertical applications.
- After the waterproofing with Chelfix Dilatation Tape in the expansion joints, put dilation profiles on it and provide aesthetic solution.
- It is weather resistant and water resistant.
- It is resistant to temperature changes and maintains its flexibility in cold up to  $-30^{\circ}\text{C}$ .

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- Suitable for use under soil thanks to its resistance to plant roots.
- Resistant to dilute acids and alkaline solutions.
- Resistant to harsh weather conditions, ozone and UV effects.
- It is permanently elastic, resistant to all kinds of movements and stresses of structures and building elements.

## Technical Data

General Information:	
Appearance	Grey colored roll tape
Shelf Life	24 months
Width / Thickness	200 mm/ 1mm / 1.5 mm
Item Weight	930 gr/ m <sup>2</sup>
Shore A Hardness	94
Longitudinal Break Extension	1000 % (DIN EN ISO 527-3)
Transverse Break Extension	1000 % (DIN EN ISO 527-3)
Maximum Explosion Pressure	> 4 bars
Longitudinal Breaking Load	14.0 N/mm <sup>2</sup> (DIN EN ISO 527-3)
Transverse Fracture Load	14.0 N/mm <sup>2</sup> (DIN EN ISO 527-3)
Fire Classification	B2
Service Temperature	-30 °C / + 90 °C
UV Resistance	Min. 6500 hours
Adhesion Strength	> 4.0 N/mm <sup>2</sup> (DIN 1348)
Chemical Resistance	
Hydrochloric acid 3%	+
Sulfuric acid 35%	+
Citric acid, 100 g+	+
Lactic acid %5	+
Potassium hydroxide %20	+
sodium hypochlorite 0,3 g/l	+
Saltwater (20 g/l seawater salt)	+

## Application Instructions

**Surface Preparation:** The application surface must be cleaned from anti-stick materials such as dust, oil, curing material, detergent, mold oils and silicone. The surface may be dry or slightly damp. It is advised not to apply on wet, snowy surfaces in rainy weather.

**Cleaning:** It must be protected after application against adverse weather conditions such as direct sunlight, high air temperature (above +35 °C), rain and frost. The product should be cleaned thoroughly with water and detergent before it is fully cured and hardened.

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## Application Notes/ Restrictions

- Depending on the length of the expansion (dilatation) joint to be applied, the Chelfix Dilatation Tape is cut with a scissors or a modeling knife, if desired, a larger polyethylene wider than the dilatation width.
- It is removed slightly upward to make a curve, the two component epoxy based Chelfix Bond 405D is mixed. Trowel is applied to both concrete surfaces with trowel.
- Chelfix Dilatation Tape is cleaned with a small amount of thinner and placed on the expansion joint. If it is to be added in the band application, the riders shall be placed at least 10 cm above the top. Bottom and upper sides of the places are melted by holding hot air source and then joined.
- Chelfix Dilatation Tape should be seen from the holes on the side of the Chelfix Dilatation Tape. After the first coat application of Chelfix Bond 405D is hardened, second coat application is done.
- The product must be removed from its packaging when it is used. Care must be taken to ensure that the piercing and cutting tools do not damage the structure of the product before and after application.

## Packaging

Chelfix Dilatation Tape is available in 25 meter roll.

## Safety Precautions

It is dangerous to approach storage and application areas with fire. Storage and application areas should be ventilated. During the application, work clothes, protective gloves, glasses and masks in accordance with the occupational and worker health rules should be used. During storage and application, it should not be contacted with the skin and eyes, in case of contact, it should be washed with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, the Material Safety Data Sheet should be consulted.