



# Hychem FPO Joint Tape 250

## Product Description

High-performance flexible polyolefin (FPO) waterproofing tape, with an additional 20mm perforation at both edges for better bonding. Hychem FPO Joint Tape 250 is used in conjunction with Hychem PF19 Epoxy Paste.

## Fields Of Application

Suitable for waterproofing of outside expansion and construction joints. Also used for installation with suitable adhesives and sealants on various building substrates in critical areas with high and/or frequent movements. Used for covered outdoor application, as flashing for expansion joints and other construction joints with high and/or frequent movements. It is applied with an adequate adhesive on many different surfaces but only if it is covered with panels, plaster, or waterproofing products, as it cannot be constantly exposed to UV rays. Also suitable for underground waterproofing, waterproofing against groundwater, waterproofing for basements, houses, parking garages, containers and tanks, swimming pools, roofs and facades, mines and tunnel construction, roads and bridges.

## Technical Data

Material Composition	Thermoplastic elastomer, resistant to aging
Colour	Grey
Standard Widths	250mm
Total Thickness	Approx 1.2mm
Material Weight	approx 930
Resistance to temperature (min,max)	-30°C / +90°C
Shore-A-Hardness	87

## Physical Properties

Maximum burst pressure	≥ 4 bar
Tear Resistance - Lengthwise: (DIN EN 12311-2 Method B)	15 N/mm <sup>2</sup>
Tear Resistance - Across: (DIN EN 12311-2 Method B)	15 N/mm <sup>2</sup>
Elongation at Break Lengthwise: (DIN EN 12311-2 Method B)	620%
Elongation at break across: (DIN EN 12311-2 Method B)	670%
Watertightness: (DIN EN 1928 Method A&B)	Watertight
Bonding strength: (DIN EN 1348)	≥ 4 N/mm <sup>2</sup>
Tear resistance (nail shank) - lengthwise (DIN EN 12310-1):	260 N
Tear resistance (nail shank) - across (DIN EN 12310-1):	260 N
Peel test wood: (depending on the adhesive used)	≥ 100 N

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## Physical Properties Continued

UV Resistance (min): (DIN EN ISO 4892-3)	≥ 6,500 h
Water vapor permeability: (DIN EN 1931 Method B)	60 m
Reaction to fire: (EN 13501-1, DIN ISO 11925-2)	class E

## Chemical Properties

Resistance after storage over 7 days by room temperature to the following chemicals: Hydrochloric acid, Sulphuric acid, Citric acid, Lactic acid, Potassium hydroxide, Sodium hypochlorite, salt water and further substances.

Tape Width	25 cm
Joint Width	10 cm
Hychem PF19 total consumption* for 3 - 3.5 mm thickness	~ 1.0 - 1.2 kg/m

\*Consumption may vary depending on the roughness of the surface.

## Packaging

Standard length per roll: 20m.

## Shelf Life & Storage

12 months from production date, in original unopened packaging, if kept in a cool, dry place, protected from direct sunlight. If packaging film has been opened, apply the material within 2 months.

## Directions For Use

### 1. Preparation

Prepare the substrate by means of sandblasting, grinding, etc., followed by vacuuming and cleaning.

### 2. Application

**Step 2:** In case of expansion joints or cracks, it is essential that a stripe of width equal to the width of the joint in the center of the tape remains unbounded, which means free of adhesive. For this reason, insert a foam backer rod inside the joint and apply a masking tape on top of the joint / crack.

**Step 3:** Apply the epoxy adhesive on the left-hand and the right-hand side of the joints. Do not cover the central masking tape with adhesive.

**Step 4:** No activation on job site is required. In case of dirt, clean the surface of the tape with a dry or wet cloth. Use nothing but water for cleaning, NO SOLVENTS. Apply the tape on the joint and firmly press the tape into the adhesive bed. Avoid air pockets by using a suitable tool. Apply a masking tape in the middle of the tape.

**Step 5:** Cover the tape with a second layer of the adhesive. In order to guarantee good adhesion with the surface, the adhesive should exceed the tape about 3 cm.

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**Step 6:** Remove the masking tape from the center of the tape, as well as both lateral masking tapes, some minutes after the application.

**Step 7:** After drying, the epoxy resin gets very hard and could create a "knife effect" on the edges. In order to avoid damages of both the user and the tape, it is suggested to smooth the edges of epoxy with a brush some minutes after removing the masking tape.

**Step 8:** In case of higher water pressure (>1.5 bar up to 3 bar) or negative pressure, protect the joint with a metal plate.

## Expansion Joints

The product is fusible with standard hot-air dryers. It is important to select a low temperature setting so that only the surface of the tape melts in order not to affect the tightness of the product.

**Step 1:** Use a proper air gun tool with the right setting

- Recommendation:  $\geq 1150$  Watt / 340°C

- Air Power: 3

- Nozzle: 20 or 40 mm

- Roller

**Step 2:** Parts to be welded must be roughened or sanded.

**Step 3:** Proceed with the hot air welding. The minimum overlapping must be 100mm. In order to guarantee a good elasticity to the tape, it is better to weld the two pieces before the installation.

## Overlapping By Epoxy In Case Of Joints With No Or Micro-Movements

**Step 1:** Bond the two pieces of the tape together, using an epoxy resin. Minimum overlapping must be 100mm. Press the two pieces firmly onto each other and avoid air pockets by using a suitable tool.

**Step 2:** Cover the tape applying the second layer of the adhesive.

### Warranties and Disclaimers

Hychem warrants that this product shall conform to the technical specifications published in the product literature. The quality and fitness of the product is dependent upon the proper use and application of the product by the applicator. Hychem has no role in the application of the finished polymer other than to manufacture and supply its components. It is vital that the person applying this product understands the product and is fully trained and certified in the use of spray equipment and application of sol-gel materials. There are no warranties that extend beyond the description on the face of this instrument, except when provided in writing, directly by Hychem and executed under seal by a company officer.

### Field Support

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