

BI FLEX SYSTEM

Supply and installation of waterproof elastomeric terpolymer tape combined with a two-component epoxy adhesive for the treatment of joints and cracks.

The system must have a minimum thickness of 1 mm depending on the type of application chosen.

The product must be used for:

- To apply a waterproof sealing on joints and cracks
- To seal construction joints
- Connect adjoining surfaces of joints, structures in general or prefabricated elements
- Waterproofing of tanks, canals, swimming pools and structures intended for containing water, including drinking water
- Sealing of discontinuous elements for water and/or air tightness

The material must have the following characteristics:

Specification	Test method	0.5 mm thickness - Positive pressure water	1 mm thickness - Positive/negative pressure water	1.5 mm thickness - Positive/negative pressure water
Concrete peeling resistance (180°)	ASTM D 903	> 0.5 kN/m	> 1.5 kN/m	> 1.5 kN/m
Positive pressure water resistance on open joint*	Int. method	2 cm: 1.5 bar	1 cm: 3 bar 2 cm: 3 bar	-
Negative pressure water resistance on open joint*	Int. method	-	1 cm: 1 bar 2 cm: 0.5 bar	2 cm: 1 bar
Adhesion to damp concrete	UNI EN 13578	> 2.0 N/mm ²	> 2.0 N/mm ²	> 2.0 N/mm ²

Feature	Certifying body	Test method	Certified performance (**)
Radon diffusion coefficient - BI FLEX	CZECH TECHNICAL UNIVERSITY IN PRAGUE	ISO/TS 11665-13	2,5 E-11 m ² /s
Radon diffusion coefficient - BI FLEX overlap sealed with BI MASTIC	CZECH TECHNICAL UNIVERSITY IN PRAGUE	ISO/TS 11665-13	1,9 E-11 m ² /s

Feature	Certification
Suitability for contact with drinking water Determination of global migration D.M. 174 of 06/04/2024	SOCOTEC ITALIA SRL Report n° LF53030/23 - LF53031/23
Suitability for contact with drinking water Determination of specific release Ministerial Decree 174 of 06/04/2024	CHELAB SRL Report n° 17/000244151

*Tests were carried out by testing an overlap area bonded with BI MASTIC sealant

as well as Bi Flex System Volteco or a product with equal or superior characteristics.

The technical data must be supported by test certification issued by an accredited official laboratory and / or be subjected to quality control according to ISO 9001.

For further details on the individual products and installation specifications, refer to the relevant technical data sheets which can be downloaded in the updated version on the website www.volteco.com.