

## Mastix system : technical file

A22

### Waterproofing of work joints

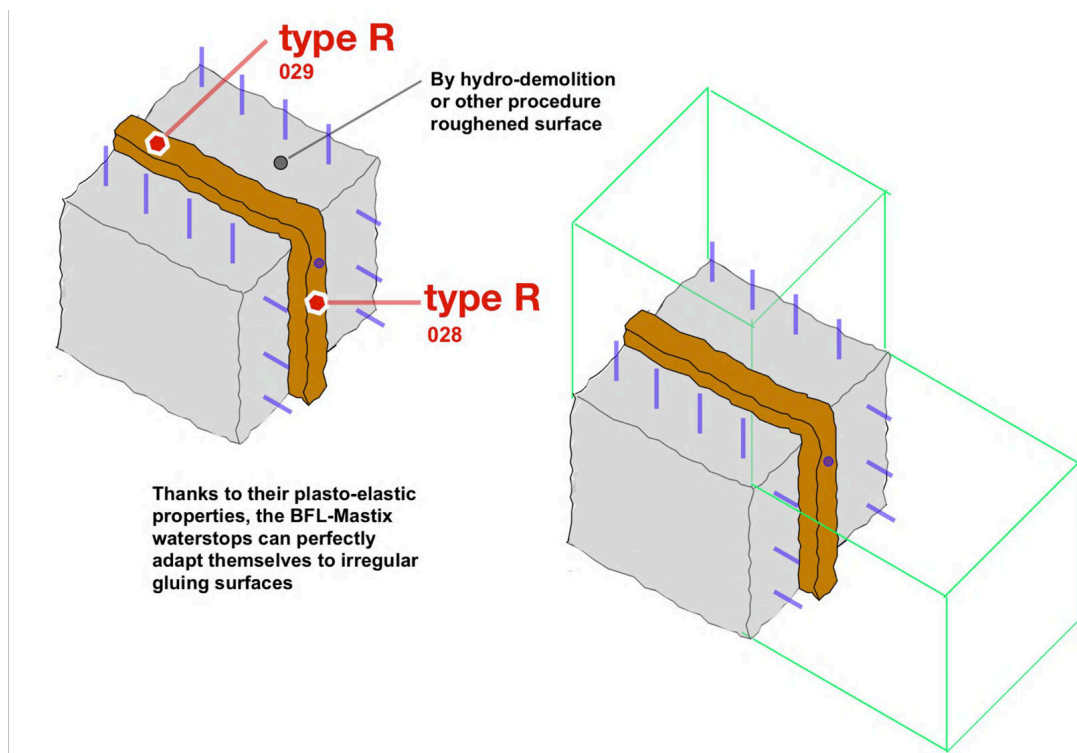
Demolished/new horizontal wall part

Demolished/new vertical wall

Variant with bands type R

### Variant with bands type R

Specifications sheets 028 - 029



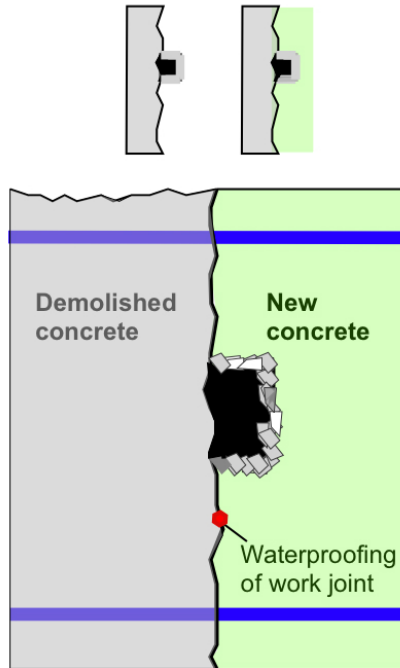
The Mastix system is simple to work with and naturally compatible  
with concrete and concrete structures.

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Waterproofing of work joints

Demolished/new horizontal wall part

Waterstops BFL-Mastix type R to be glued on a demolished wall part



BFL-Mastix type R

Work or construction joint

Interface between two concreting stages where water could penetrate.

Choosing a profile type R

Consult the Mastix catalogue over [www.mastix.ch](http://www.mastix.ch) page 23

Gluing of waterstops type R

- 1.- Preparation
- 2.- Gluing on dry or humid demolished concrete surface, using Mastix MS-Polymer glue.
- 3.- Control of the glued waterstops

Consult the Mastix catalogue over [www.mastix.ch](http://www.mastix.ch) pages 74 - 78 - 79 - 80

1. Description of waterstop type R

BFL-Mastix waterstops type R are composed of a partly gravel covered core.

The core consists of a soft and waterproof rubber/bitumen elastomer material.

**The fine gravel coating partly, covering the profile R, is a rough and porous non alkali-reactive material of grain size 4/8 mm.**

**The fine gravel is mechanically tightly anchored on the core material.**

2. Water penetration

The adhesion of the bands on fresh concrete avoids any possible water penetration around the bands or alongside in the work joint.

**Water penetration in work joints leads to damage or, on long term in some cases to a total structural damage.**

3. Object of the Mastix system

**Avoid any water infiltration in the joints of a concrete structure.**

4. The goals of the Mastix system

- **To adapt to all movements** occurring in a concrete structure, thanks to the plasto-elastic core deformation capacity of the BFL-Mastix waterstops.

Consult the Mastix catalogue over [www.mastix.ch](http://www.mastix.ch) page 6

- Thanks to the mechanically coated core gravel cover, the BFL-Mastix waterstops **can perfectly adhere with fresh concrete.**

Consult the Mastix catalogue over [www.mastix.ch](http://www.mastix.ch) pages 7 and 8

- **adhere intimately on hard concrete,** by using Mastix MS-Polymer glue.

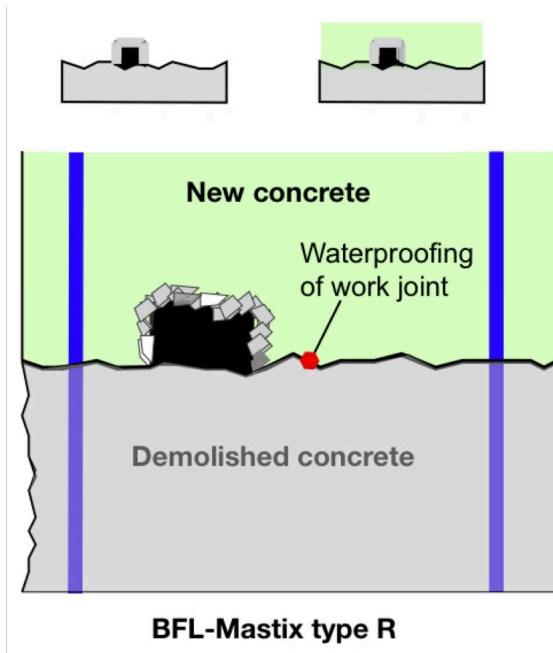
Consult the Mastix catalogue over [www.mastix.ch](http://www.mastix.ch) pages 8 and 74

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Waterproofing of work joints

Demolished/new vertical wall

Waterstops BFL-Mastix type R to be glued on a demolished wall part



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**The fine gravel is mechanically tightly anchored on the core material.**

**2. Durability**

Only when the structure is demolished, then the BFL-Mastix waterstops will be detached from the concrete.

**It is possible to consider the BFL-Mastix waterstops as a constructive element of the concrete structure.**

**3. Object of the Mastix system**

**Avoid any water infiltration in the joints of a concrete structure.**

**4. Guarantee**

The guarantees offered with the BFL-Mastix system are based on permanent observations of BFL-Mastix waterstops in concrete structures over more than 20 years.

Only, when the concrete structure is demolished, the BFL-Mastix waterstops detach from the concrete.

To obtain certainty of the long-term BFL-Mastix waterstops quality, it is sufficient to control the correct carrying out of the placed bands.

It must be observed that the watertightness of concrete must not be mixed up with that in a joint.

The alkalinity of the concrete does not alter the band characteristics, an important factor for the long-term guarantee

**The Mastix system is simple to work with and naturally compatible with concrete and concrete structures**

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