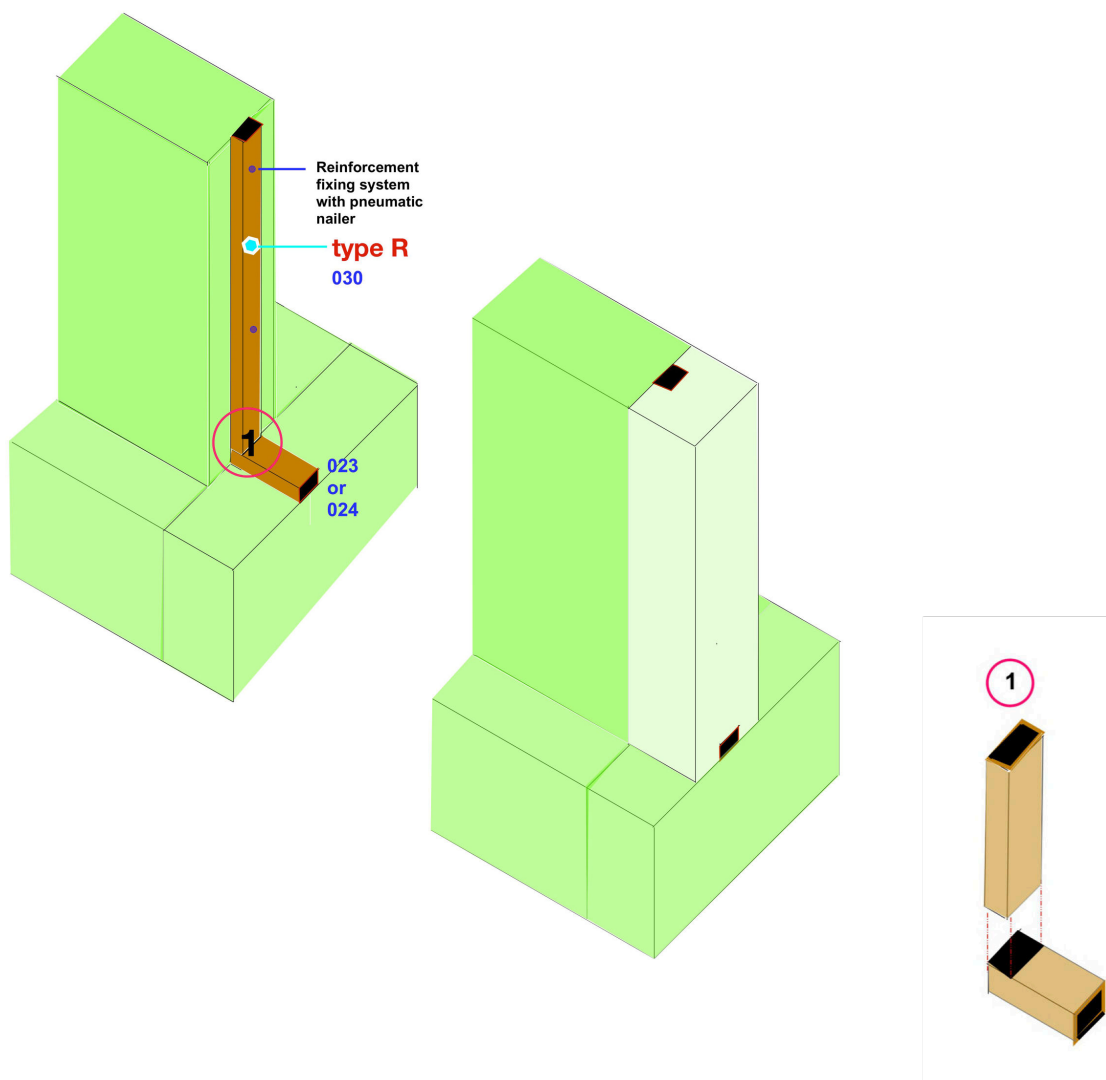


Mastix system : technical file
Waterproofing of work joints
Wall/Wall - Raft foundation/Walls
Variant with bands type R

A21

Variant 1 with bands type R
Specifications sheets 030 - 023 - 024



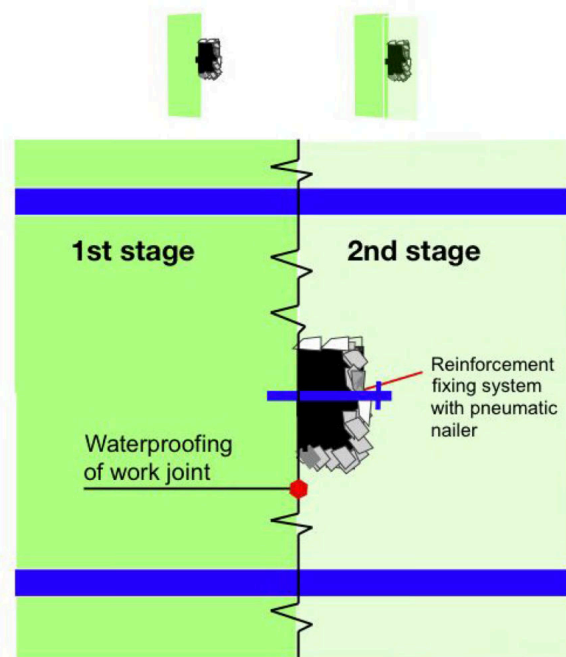
The Mastix system is simple to work with and naturally compatible with concrete and concrete structures.

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Waterproofing of work joints

Wall/Wall - Raft foundation/Walls

Waterstops BFL-Mastix type R to glue on the concrete of the first concreting stage



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 page 24

Gluing of waterstops type R

- 1.- Preparation
 - 2.- to be glued with Mastix MS-Polymer and reinforce with pneumatic nailer. The number of nails on each band depends on the ambient temperature.
 - 3.- Control of the glued waterstops
- Consult the Mastix catalogue over 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, 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. Reinforcement the glued waterstops

In order to reinforce the glued waterstops, a pneumatic nailer can be used during the glue hardening period.

The high elasticity of the band core avoids any liquid infiltration around the nails.

Properties of BFL-Mastix waterstops

Waterproof connection of the core, glued on usual building materials, such as concrete, metals, wood and synthetic materials.

Waterproof liaison of the gravel coating with liquid concrete.

The capacity to adapt to deformations in the concrete structure, such as to temperature influence, ice and deice cycles, settlements, long term retreat, creeping, vibrations and seismic influences.

High **resistance** against **chemical aggressions**.

High **resistance** against **mechanical aggressions**.

BFL-Mastix waterstops show a mineral surface, rough and porous and allow a perfect adhesion for a waterproof liaison with concrete.

The surface roughness of BFL-Mastix waterstops is the decisive element to assure the waterproofness in the joints.

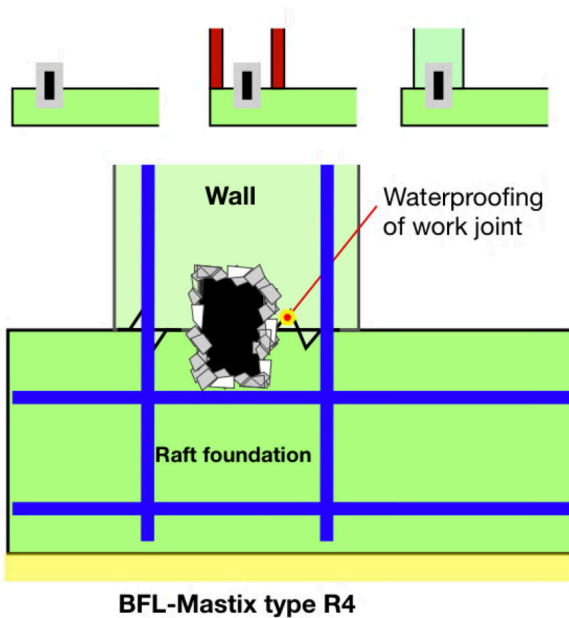
The Mastix system is simple to work with and naturally compatible with concrete and concrete structures

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Waterproofing of work joints

Raft foundation/Walls

Waterstops BFL-Mastix type R4 to be placed into the raft concrete



Work or construction joint

Interface between two concreting stages where water could penetrate.

Choosing a profile type R4

Consult the Mastix catalogue over www.mastix.ch page 15

Placing of waterstops type R4

- 1.- Preparation
- 2.- Bands incorporation in fresh raft concrete
- 3.- Control of placed bands

Consult the Mastix catalogue over www.mastix.ch pages 76 - 77- 80

1. Description of waterstop type R4

BFL-Mastix waterstops type R4 are composed of a totally gravel covered core. The core consists of a soft and waterproof rubber/bitumen elastomer material.

The fine gravel coating, covering the profile R4, 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. Liaison with fresh concrete

Waterproofing a work joint cannot be done, if the fresh concrete gets in contact with a non-absorbing material, such as glass, steel or synthetics.

Fresh concrete adheres exclusively on absorbing and porous materials, such as the BFL-Mastix waterstops type R4.

3. 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.

4. Bad weather on the job site

BFL-Mastix waterstops type R4 placed in fresh concrete, do not suffer under rain, snow or frost.

5. Durability

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

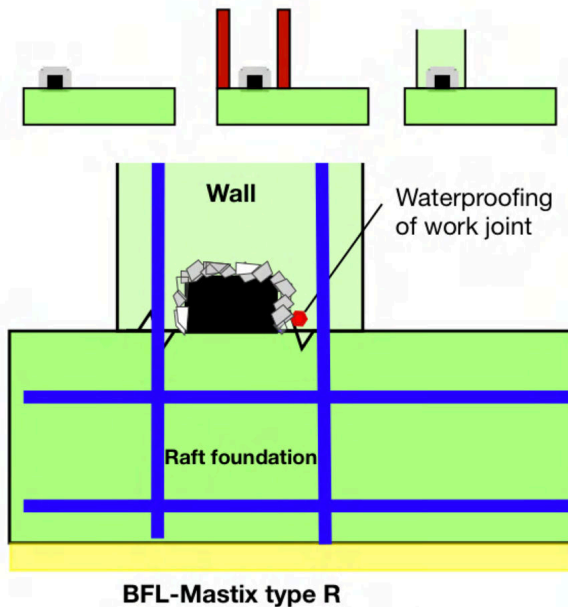
It is possible to consider the BFL-Mastix waterstops as a constructive element of the concrete structure.

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

Waterproofing of work joints

Raft foundation/Walls

Waterstops BFL-Mastix type R to be glued on the hard raft concrete



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 page 23

Gluing of waterstops type R

- 1.- Preparation
- 2.- Gluing with Mastix MS-Polymer on raft concrete
- 3.- Control of the glued waterstops

Consult the Mastix catalogue over 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, 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. Liaison with fresh concrete

Waterproofing a work joint cannot be done, if the fresh concrete gets in contact with a non-absorbing material, such as glass, steel or synthetics.

Fresh concrete adheres exclusively on absorbing and porous materials, such as the BFL-Mastix waterstops type R.

3. 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.

4. Bad weather on the job site

BFL-Mastix waterstops type R placed in fresh concrete, do not suffer under rain, snow or frost.

5. 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.

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

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