

Mastix system : technical file

B02

Waterproofing of retreat joints

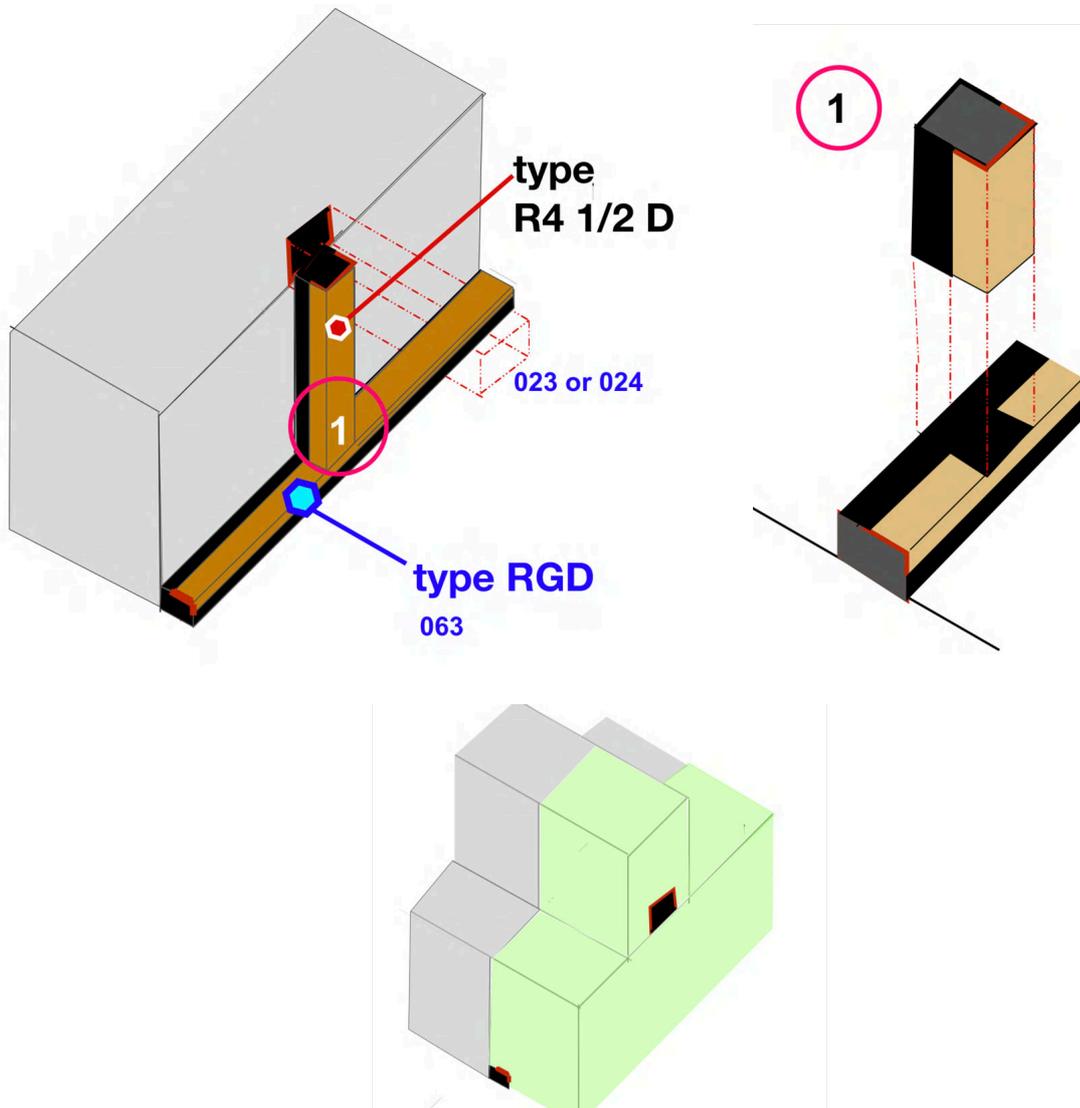
Existing old/new raft foundation

Raft foundation/Walls

Variant with bands types RGD - R4 - R

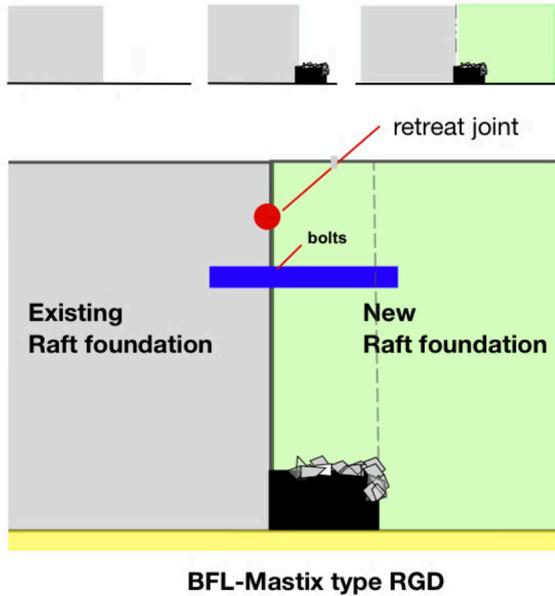
Variant 1 with bands type RGD

Specifications sheet 063 - 023 - 024



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

© mastix sa 2018 /JM/ B02 10.18 Certified ISO 9001/2015



Retreat or control joint

Formed through retreat of the new concrete during its hardening period and non existing connection reinforcement.

Choosing a profile type RGD

Consult the Mastix catalogue over www.mastix.ch page 52

Gluing of waterstops type RGD

- 1.- Preparation
 - 2.- Waterstops to be glued on lean and existing raft concrete with Mastix MS-Polymer
 - 3.- Control of the glued waterstops
- Consult the Mastix catalogue over www.mastix.ch pages 74 -78 - 79 - 80

1. Description of waterstop type RGD

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

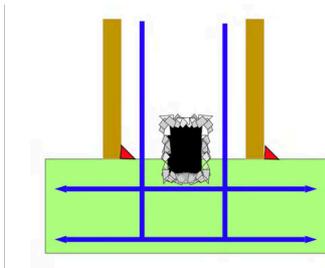
The core consists of a soft and waterproof rubber/bitumen elastomer material.

The fine gravel coating, covering the profile RGD, 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.

3. Waterproofing of formwork foot

Particular attention is required of the lowest part of the formwork, in order to avoid any leakage of cement milk. The loss of cement milk produces gravel holes (bee nests), where finally water could circulate in these spaces.



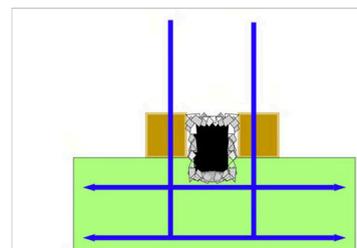
2. Waterproofness of concrete

Modern concrete technology allows to produce waterproof concrete.

A correctly mixed concrete is sufficiently waterproof to satisfy all construction requirements.

4. Protection of BFL-Mastix waterstops

To avoid any damage on already placed waterstops, it is necessary to cover them with wooden boards, when people are walking in this sector.

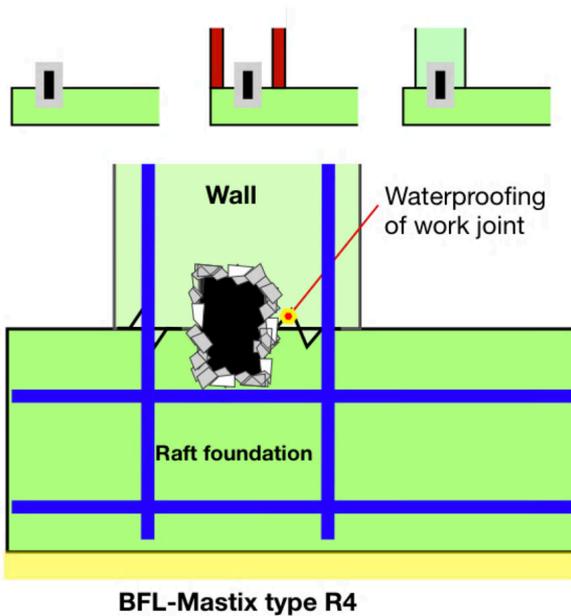


The Mastix system is simple to work with and naturally compatible with concrete and concrete structures

Waterproofing of work joints

Raft foundation/Walls

Waterstops BFL-Mastix type 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.

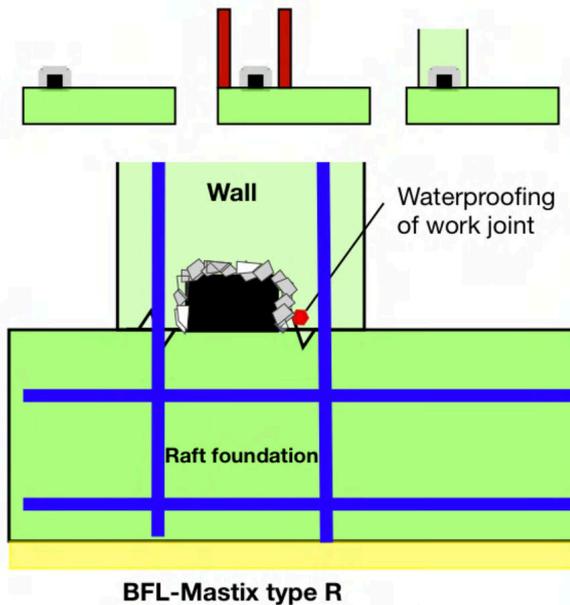
It is possible to consider the BFL-Mastix waterstops as a constructive element of the concrete structure.

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

© mastix sa 2018 /JM/ 024 0318 Certified ISO 9001/2000