

BI MORTAR FAMILY

waterproof solutions for every need

DEFINITION

Bi Mortar Family are pre-mixed waterproof mortars, high-performance, multifunctional and suitable for multiple applications, also ideal in situations with water under pressure.

APPLICATION FIELDS



UNDERGROUND
WATERPROOFING



RESTORATION OF
DAMP MASONRIES



WATERPROOFING OF
POOLS AND TANKS

WHY CHOOSE WATERPROOF MORTARS

- > **Total resistance** to hydrostatic pressure, both negative and positive
- > **Fast installation**, even in critical conditions
- > **Reliable** solutions, with over 300 references to explore: www.volteco.com
- > Suitable for **building renovation** and highly versatile in application

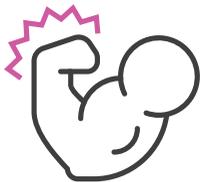
It's a waterproof life.

BI MORTAR FAMILY



BI MORTAR PLASTER SEAL Reinforces and waterproofs

- Thick waterproof plaster for structures, both mixed masonry and concrete, even in cases of negative hydraulic pressure.



BI MORTAR CONCRETE SEAL Waterproofs by crystalization

- Crystalline cross-linked cementitious waterproofing for underground areas, even in cases of negative hydraulic pressure.



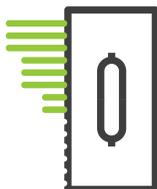
BI MORTAR RASO SEAL Smooths and waterproofs

- Waterproof coating, designed for surfaces in contact with water and humidity in underground areas, swimming pools and tanks.



BI MORTAR LEVELLING SEAL Levels and waterproofs

- Pourable, waterproof concrete for levelling and waterproofing horizontal or vertical structures, even in cases of negative hydraulic pressure, with the aid of formwork.



BI MORTAR ULTRA SEAL Coats and waterproofs

- Epoxy-cementitious levelling compound for coating and waterproofing even uneven surfaces, particularly suitable as a barrier against rising damp.



Reinforces and waterproofs

Bi Mortar Plaster Seal is a thick fibre-reinforced plaster with waterproofing properties that simplifies the restoration of surfaces subject to water and moisture infiltration.

Product application

- for underground structures made of either concrete or mixed material
- to waterproof skirting at the foot of the plaster
- to repair diaphragms with a reinforcement mesh being interlaid



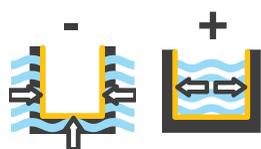
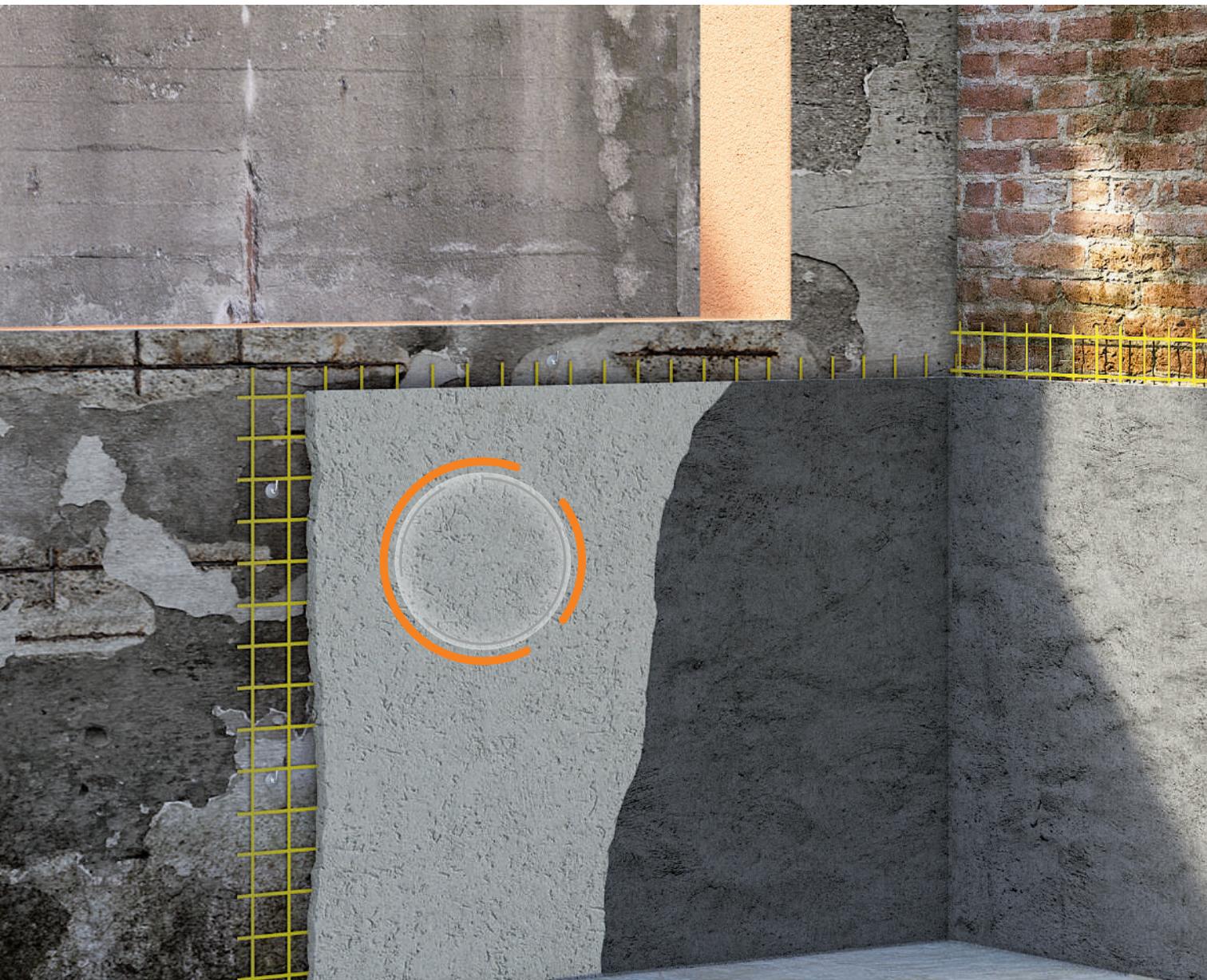
- **consumption and yield:** 18 kg/m² per centimetre in thickness
- **content:** powder 25 kg

CE UNI EN 1504-3 CC R3

Rn
Radon
tested

It's a waterproof life.

EXAMPLE OF APPLICATION



In basements, thanks to this procedure, known in technical jargon as 'rifodera' (re-lining), it is possible to renovate areas subject to water infiltration.

BI MORTARTM PS

PLASTER SEAL



It's a waterproof life.

BI MORTAR PLASTER SEAL

Reinforce and waterproof concrete and historic structures



Advantages:

- > Simplifies the application process as it smooths and waterproofs in a single application
- > Also applicable on **uneven surfaces**
- > Excellent resistance in **negative pressure** combined with **Revomat/Revogrid** fibre mesh
- > Sulphate **resistant**
- > **Radon Gas** protection



Waterproofs by crystallization

Bi Mortar Concrete Seal is a crystalline cross-linking cementitious waterproofing agent. It creates a continuous coating that prevents water penetration even under negative pressure, quickly and with high resistance.

Product application

- foundation walls, cellars and elevator pits
- basins, pools, channels, wells
- concrete surfaces and masonry in general

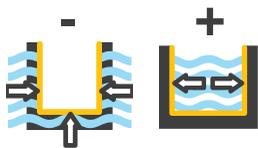


- **consumption and yield:**
2,5÷3 kg/m²
- **content:** powder 20 kg



It's a waterproof life.

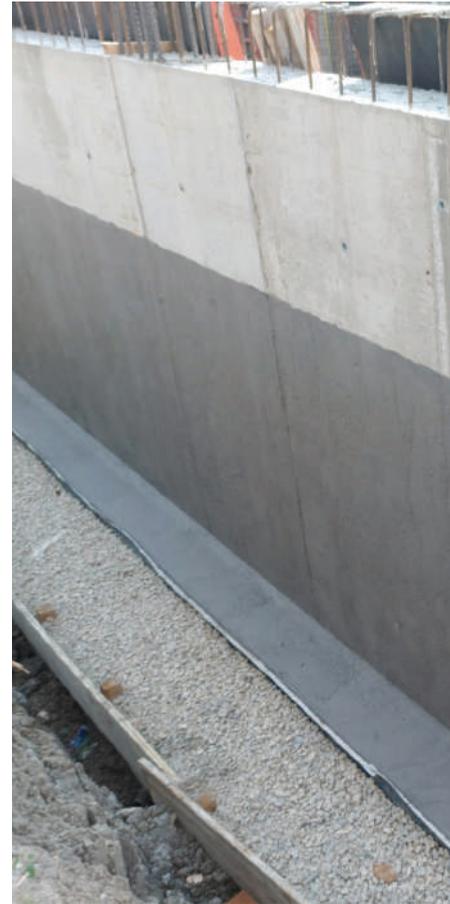
EXAMPLE OF APPLICATION



In underground applications, the versatility of the product, as shown in the image, allows it to be used in both **positive and negative hydrostatic pressure** conditions, depending on the requirements of the construction site.

BI MORTAR™ CS

CONCRETE SEAL



It's a waterproof life.

BI MORTAR CONCRETE SEAL

Waterproofs by crystallization



Advantages:

- › **Negative pressure** resistance up to **9 bar**
- › **Easy application** with a brush, roller or machine
- › Suitable for **continuous contact** with **water**
- › **Easy maintenance**, also in conditions of high humidity and closed environments

BI MORTARTM RS

RASO SEAL

Smooths and waterproofs concrete structures

Bi Mortar Raso Seal is a flexible, fibre-reinforced cementitious levelling compound that creates a continuous waterproof coating in just a few millimetres, achieving an attractive decorative mineral finish that can be pigmented.

Product application

- pools
- for underground structures made of either concrete or mixed material
- basins, tanks and channels
- mixed masonry and concrete structures in general
- prefabricated elements such as manholes, collection channels, concrete pipes and similar items



- **consumption and yield:** 1,85 kg/m² per mm of thickness
- **content:** powder 20 kg + liquid 5 kg

CE UNI EN 1504-2

It's a waterproof life.

EXAMPLE OF APPLICATION



In swimming pools and tanks as a levelling and waterproof finish.

BI MORTARS™

RASO SEAL



It's a waterproof life.

BI MORTAR RASO SEAL

Smooths and waterproofs concrete structures



Advantages:

- > Simplifies the application process as it smooths and waterproofs in a single application
- > Excellent adhesion to most substrates such as concrete, mortar, stone, and brick
- > Also suitable for negative hydraulic pressure conditions
- > Excellent surface finish thanks to a fine grain



Levels and waterproofs concrete structures

Bi Mortar Levelling Seal is a shrinkage-compensated pourable concrete suitable for all applications requiring waterproofing and high strength performance. Easy to work with, when mixed with fine gravel it is suitable for casting thick layers.

Product application

- reconstruction of pile heads and diaphragms
- structural reinforcement of pillars and beams with formwork casting
- anchoring of tie rods and metal structures
- horizontal casting for reconstruction (e.g. lift shaft bottoms, basement windows, tanks, etc.), even in cases of reduced thickness and/or negative hydrostatic pressure conditions



- **consumption and yield:** 19 kg/m² per mm of thickness
- **content:** powder 25 kg

CE UNI EN 1504-3 R4

CE UNI EN 1504-6

It's a waterproof life.

EXAMPLE OF APPLICATION



Reconstruction pile heads.

BI MORTAR[™] LS

LEVELLING SEAL



It's a waterproof life.

BI MORTAR LEVELLING SEAL

Levels and waterproofs concrete structures



Advantages:

- > Simplifies and reduces the application stages as it **reinforces** and **waterproofs** in a single application
- > **High-strength** anchoring
- > **High mechanical resistance**
- > **No voids** in the restoration
- > High durability

BI MORTARTM US

ULTRA SEAL

Coats and waterproofs concrete structures

Bi Mortar Ultra Seal is a three-component, multi-purpose epoxy-cementitious levelling compound. It creates a waterproof coating that is a barrier for capillary rise, with high mechanical and chemical performance, stabilising surfaces.



Product application

- Coating of cementitious substrates with high residual moisture, particularly suitable as a barrier against rising damp
- Levelling and waterproof restoration of even uneven surfaces
- Suitable for damp structures, pipes, tanks and swimming pools

- **consumption and yield:** 18 kg/m² per cm of thickness
- **content:** powder 25 kg

CE UNI EN 1504-2

Rn
Radon
tested

It's a waterproof life.

EXAMPLE OF APPLICATION



In swimming pools, it levels, restores and waterproofs even uneven surfaces, ensuring adhesion of the finish.

BI MORTAR™ US

ULTRA SEAL



It's a waterproof life.

BI MORTAR ULTRA SEAL

Coats and waterproofs concrete structures



Advantages:

- › **High adhesion** on various substrates
- › **Compatible with coatings** such as acrylic, epoxy, polyurethane and cementitious coatings
- › **Regulates substrate absorption** and eliminates dust from cementitious surfaces, optimising the adhesion of subsequent layers
- › **Can be mixed** with quartz sand to increase mechanical strength and application thickness
- › **Radon Gas** protection
- › **High impermeability even under negative hydraulic pressure**

