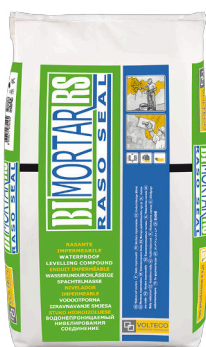




BI MORTAR RASO SEAL

PRODUCT DESCRIPTION

BI MORTAR RASO SEAL is a spatula-applied fibre-reinforced cement-based levelling compound. This creates a continuous waterproof coating.



PRODUCT APPLICATION

- Waterproofing of under or above ground concrete or masonry surfaces
Particularly suitable for:
- Mixed material or concrete underground structures, also in combination with other products from the BI MORTAR line
- Basins, tanks and channels, walls in general
- Prefabricated elements such as wells, ditches, concrete piping and similar

ADVANTAGES

- It simplifies and reduces the application phases as it evens out and waterproofs in a single application
- Excellent adhesion on most types of substrates such as concrete, mortar, stone, brick
- Good surface finish thanks to its fine grain size
- Waterproof levelling compound also suitable in conditions of negative hydraulic pressure
- Also applicable on uneven surfaces

PREPARATION AND APPLICATION Preparing the surfaces

Remove any loose parts (fouling, bleeding, etc.) and clean all traces of dust, dirt, paint, form oil and any other material that could compromise the adhesion of BI MORTAR RASO SEAL; restore missing parts of the surface by applying special Volteco repair mortars (see relevant technical data sheets).

High-pressure clean the surface until it is soaked and remove excess water before applying the product. Seal any localised water flows with TAP 3/I-PLUG rapid-setting hydraulic mortar (see relevant technical data sheets).

With brick or mixed material surfaces, preventively apply BI MORTAR CONCRETE SEAL to reinforce waterproofing and at the same time provide the base with a uniform degree of absorbency.

Preparation of elements of discontinuity on the surfaces (positive hydrostatic pressure)

- **CONSTRUCTION JOINTS** Connect the construction joints between the bed and the vertical wall by forming a 3x3 cm fillet with SPIDY 15 rapid-setting mortar (see relative data sheet)
- **PASSING BODIES** Seal all the passing bodies, including spacers and pipes, with AKTI-VO 201 mastic (see related technical data sheet)
- **JOINTS, CRACKS AND EDGES** Connect all joints, significant cracks with GARVO or BI FLEX (see relevant technical data sheets) joint cover strip, as well as the horizontal and vertical edges (including where the fillet is) if WT 102 (see related technical data sheet) bentonite waterstop has not been used. Contact the Volteco Technical Service before intervening on the expansion joints.



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Preparation of elements of discontinuity on the surfaces (negative hydrostatic pressure)

- **WATER FLOWS** Seal any water inflow with TAP 3/I-PLUG quick-setting mortar
- **CONSTRUCTION JOINTS AND CRACKS** Seal the construction joints and cracks with AKTI-VO 201 mastic and/or BI FLEX system
- **PASSING BODIES** Seal all the passing bodies, including spacers and pipes, with AKTI-VO 201 mastic
- **JOINTS** Contact the Volteco Technical Service before intervening on the expansion joints

Preparing the mixture

Pour the mixing water into a mortar mixer or a cement mixer (3.6÷3.8 l per bag equivalent to 18÷19% in weight).

Slowly add the product while the mixer is running.

Mix the mixture for approximately 3 minutes, then check product workability (small variations in water will not alter the characteristics of the product).

Continue mixing the mixture for 2 more minutes.

Application

Apply BI MORTAR RASO SEAL in 3 mm layers using a trowel or a flat spatula; wait at least 60 minutes between one layer and another when thicker layers are applied.

Sprayed application

The product can also be applied with a plastering machine with levelling wands after separately mixing the product (for more information contact the Volteco Technical Service).

Finishing

A sponge float can be used for the BI MORTAR RASO SEAL finish, approx. 15-20 minutes (at +20°C) after application, or with spatula.

Before applying any coatings, let it cure for at least 3 days after applying BI MORTAR RASO SEAL.

When applied indoors, it is recommended to coat the walls with the macroporous CALIBRO as an anti-condensation layer.



References available at www.volteco.com

CONSUMPTION AND YIELD

1.6 kg/m² per mm of thickness equivalent to a yield of 12÷13 l of mortar per bag.

PACKAGING AND STORAGE

20 kg bags.

An open package is sensitive to humidity.

The products must be stored in a dry place protected from sun and humidity.

WARNINGS - IMPORTANT NOTES

Do not add water to extend the pot life.

Protect the applied product from exposure to wind or sun.

Significant condensation may occur in environments with poor ventilation or high humidity.

For casting carried out at different times or with closed or movement joints, it will be necessary to use the BI FLEX waterproof system (see related data sheet) on the joints.

Contact the Volteco Technical Service before intervening on open expansion joints.

The structures that the product is applied to must be suitably sized to resist the hydraulic pressure.

The preparation and installation data refer to normal environmental conditions (temperature +20°C; relative humidity 60%).

PHYSICAL AND TECHNICAL SPECIFICATIONS



BI MORTAR RASO SEAL

Specification	Values
Appearance	grey powder
Mixture consistency	thixotropic
Application temperature	from +5 °C to +30 °C
Workability time at +20 °C	20'
Maximum aggregate size	1 mm
Mixture ratio	100 parts powder 18-19 parts liquid

Parameters subject to company Quality Control	Test method	Declared performance
Specific weight	-	> 1.9 kg/l
Capillary absorption	UNI EN 13057	$\leq 0.5 \text{ kg} \cdot \text{m}^{-2} \cdot \text{h}^{-0.5}$
Compressive strength after 1 day after 7 days after 28 days	UNI EN 196-1	> 15 MPa > 30 MPa > 40 MPa
Flexural strength after 1 day after 7 days after 28 days	UNI EN 196-1	> 3 MPa > 3,5 MPa > 7 MPa
Bond strength	UNI EN 1542	$\geq 1.5 \text{ MPa}$
Impermeability in negative pressure	UNI EN 12390-8	0.6 Bar (6 mm in thickness)

The quoted data are obtained in a laboratory at +20 °C and 60% RH.

SAFETY

This is a non-toxic alkaline product.
It is recommended to use a mask and gloves while working.
Accidental contact with eyes, rinse thoroughly with water and seek medical advice.

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