

WATERPROOF MORTARS - RAPID-SETTING MORTARS

BI MORTAR RASO SEAL



PRODUCT DESCRIPTION

BI MORTAR RASO SEAL is a white, two-component, waterproof, flexible and decorative coating that can be used to create continuous finishing surfaces even in direct contact with water. It allows both levelling and decorative finishing of treated surfaces, even with a marmorino effect.



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, apply BI MORTAR PLASTER SEAL (see the technical data sheet) to the surface to reinforce waterproofing and at the same time provide the base with a uniform degree of absorbency.

Preparation of surface discontinuity elements

Seal all discontinuities, joints, cracks and through-bodies with a suitable Volteco sealing system. In the case of structural expansion joints, please contact Volteco's Technical Service.

Preparing the mixture



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Shake the liquid component in its container, then pour it into a bucket (minimum 14 I) and gradually add about half of the powder component with the mixer running.

Mix with a whip-fitted drill until a homogeneous mixture is obtained, then add the remaining quantity of powder and complete the mixing for a total of about 3 minutes and/or until the mixture is homogeneous and free of lumps.

During mixing remove any dust settled on the substrate or edges of the container pot.

In order to correct the workability of the mixture, the amount of liquid can be added or reduced by a maximum of about 6% of the weight of the mixture (equal to about one cup).

Pigmentation

In the case of any pigmentation of the mixture with dyes (soft colors only), it is recommended to use powder oxides, which must be poured and dispersed in the liquid component before coming into contact with the powder component, stirring with the mixer until completely dispersed.

Application

Apply BI MORTAR RASO SEAL by trowel or flat trowel in thicknesses between 1 and 3 mm in a single coat, for application of thicker coats, wait at least 12 hours between coats.

Swimming pools and water containment

In the case of swimming pools or water containment in general, please observe the following additional instructions:

- protect construction joints, joints and cracks with the BI FLEX System (see relevant technical data sheet), which is recommended to be installed in a recessed location

- apply BI MORTAR CONCRETE SEAL as a base coat or, alternatively, BI MORTAR ULTRA SEAL (see relative technical data sheets)

- apply a first coat of BI MORTAR RASO SEAL with a notched trowel (tooth height 6 mm) to obtain a 3 mm thick layer on which it is recommended to insert an alkali-resistant glass fibre mesh, then level the layer while fresh

After at least 12 hours, proceed with the second coat at a thickness of 1 mm and apply the finish - wait at least 15 days after applying the second coat before filling the tank

Finishing

BI MORTAR RASO SEAL finishing can be carried out with a sponge float or spatula when the mortar begins to harden.

Alternatively, a smooth marble-effect finish can be created using a specific technique.

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



References available at www.volteco.com

CONSUMPTION AND YIELD	1.6 kg/m ² per mm of thickness equivalent to a yield of 13÷14 l of mortar per bag.
PACKAGING AND STORAGE	BI MORTAR RASO SEAL is supplied in 25 kg packages (20 kg in powder + 5 kg in liquid). The product must be stored in a dry place without being exposed to frost and heat (maximum temperature: 40°C) or direct exposure to the sun before being applied.
WARNINGS - IMPORTANT NOTES	Protect the applied product from exposure to wind or sun. Significant condensation may occur in environments with poor ventilation or high humidity. The structures that the product is applied to must be suitably sized to resist the hydraulic loads. Do not apply BI MORTAR RASO SEAL should there be a probability of rainfall within 6 hours after the product is applied. High or low temperature conditions can significantly vary the workability and curing time of the product.





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If BI MORTAR RASO SEAL has been pigmented, the aesthetic result may be slightly uneven, or with a veiling effect, depending on the dexterity of the operator.

In the case of swimming pools or water containment in general, please observe the following additional instructions:

- During the laying phases of the BI MORTAR RASO SEAL cycle and until the rain stops, it is advisable to protect the surfaces from rain (preferably with a temporary cover) without hindering proper ventilation

- Avoid chemical water treatment during the first week after filling

- Avoid bringing high concentrations of chemical water treatment products into direct contact with the BI MORTAR RASO SEAL or using saline electrolysis treatments

- Avoid extended contact with plants as they could leave traces on the surface; therefore, we recommend periodic cleaning of the surface and covering outdoor pools when out of season.

- Prevent the proliferation of algae, fungi, etc. on the surface of the coating with appropriate specific water treatment

- The environment under consideration is subject to severe deterioration, so periodic maintenance of the coating may be necessary

Clean tools with water while the product is still fresh.

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

PHYSICAL AND TECHNICAL SPECIFICATIONS

Specification	Values					
Appearance	white powder - white latex					
Mixture consistency	trowelable					
Working temperature	from -5°C to +30°C					
Workability time at +20 °C	30'					
Maximum aggregate size	0.7 mm					
Specific weight	> 1.85 kg/l					
Mixture ratio	100 parts powder 25 parts liquid					
Feature	Test method	Performance requirements UNI EN 1504-2		Declared performance		Certified performance (**)
Capillary absorption	UNI EN 1062-3	< 0.1 kg*m ⁻² *h ^{-0.5}		< 0.1 kg*m ⁻² *h ^{-0,5}		0.021 kg*m ⁻² *h ^{-0,5}
Bond strength	UNI EN 1542	> 0.8 MPa		> 0.8 MPa		1.8 MPa
Water vapour permeability	UNI EN 7783-2	Class 1 - Sd < 5 m				Sd 1.1 m
Reaction to fire	UNI EN 13501-1	Classification				Euroclass F
Feature	Certifying body		Test method		Certified performance (**)	
Swimming pool water immersion test (168 h)	SSOG		ISO 2812-2:1993		Test report SSOG 21022637 (26/07/2021)	
Water immersion test (500 h)	SSOG		ISO 2812-2:1993		Test report SSOG 21022637 (26/07/2021)	
Determining reverse hydrostatic pressure resistance (72h at 250 kPa)	SOCOTEC ITALIA SRL		UNI 8298-8		No alteration	
	The quoted data are obta	ined in	a laboratory at +20	°C and 60%	RH.	

SAFETY

Refer to the related Safety Data Sheet.





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CE	VOLTECO S.p.a Via delle Industrie, 47 - 31050 Ponzano Veneto (I)			
23 DOP 0041 EN 1504-2:2005 1370-CPR-1299 BI MORTAR RASO SEAL Protection systems of the concrete surface: Moisture content control (MC) and increased resistivity (IR) coating				
Thermal compatibility • Part 1: Un/freezing c • Part 2: Thunderstorm • Part 3: Thermal cycle Crack bridging propert	nd permeability to water: < 0.1 kg*m ² *h ^{-0,5} ; ycles: NPD i cycles (thermal shock): NPD s without immersion in de-icing salt: NPD ties (method A): NPD osure to the action of artificial atmospheric agents: NPD ng before testing (7 days at 70°C): NPD			

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