



BI MORTAR SL

PRODUCT DESCRIPTION

BI MORTAR SL is a shrinkage-controlled waterproof bentonite coating which waterproofs and, at the same time, smoothes horizontal structures. Particularly suited for extending and re-adapting the quality of underground rooms. Also suitable in the presence of negative hydrostatic pressure.



• Thoroughly soak the surfaces with water, keeping them damp from when the application process





BI MORTAR SL



begins

· Remove all water stagnation

Preparing the mixture

The product is ready to use.

Pour the mixing water into a mortar mixer or a cement mixer (4-4.5 l per bag).

Slowly add the product while the mixer is running.

Castings with a thickness of over 4 cm may require dry and clean gravel of suitable grain size (6÷16 mm) to be added, up to 20% in weight.

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

BI MORTAR SL ready-mixed cement-based compound must be applied in a single solution with a minimum thickness of 2 cm.

When using REVOMAT mesh, apply a first layer of BI MORTAR SL and embed REVOMAT in it, fastening it to the previously arranged connectors; then, apply a second layer of BI MORTAR SL to cover the mesh completely.

For casting without containment sides, preventively set up the required formwork, then pour in BI MORTAR SL from only one side of the formwork.

The casting must be carried out without interruption and, when containment side boards are used, kept in place for at least 24 hours.

Finishing

Finish the surface with a spatula or straight edge. Before applying any coatings, let it cure for at least 7 days after casting.



References available at www.volteco.com

CONSUMPTION AND YIELD	17 kg/m ² per centimetre in thickness equivalent to a yield of 14÷15 l of mortar per bag.	
PACKAGING AND STORAGE	25 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	The product must be used within 20 minutes after mixing.	
	Do not add water to extend the pot life.	
	Do not apply the product at temperatures below +5°C.	
	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.	

PHYSICAL AND TECHNICAL SPECIFICATIONS		
Specification	Values	
Appearance	grey powder	
Mixing water	17÷18%	
Workability time	30'	
Parameters subject to company quality control	Test method	Values





У BI MORTAR SL



Specific weight		> 1.9 kg/l			
<i>Compressive strength after 1 day after 7 days after 28 days</i>	UNI EN 196-1	> 5 N/mm² > 20 N/mm² > 25 N/mm²			
Flexural strength after 1 day after 7 days after 28 days	UNI EN 196-1	> 2 N/mm² > 4 N/mm² > 5 N/mm²			
Bond strength	UNI EN 1542	> 1.5 N/mm²			
Permeability in positive pressure	UNI EN 12390-8	none up to 100 kPa			
Permeability in negative pressure	UNI EN 12390-8	none up to 50 kPa			
	The quoted data are obtained in	The quoted data are obtained in a laboratory at $+20^\circ\text{C}$ 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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