



BioSTONE REPAIR

NATURAL HYDRAULIC LIME-BASED MORTAR
WITH LOW ELASTIC MODULUS
AND IMPROVED ADHESION FOR REPAIRING STONEMWORK

GRANTS *LEED* CREDITS



CHARACTERISTICS	ENVIRONMENTAL	METHOD OF USE			PRECAUTIONS	
 ALLOWS TO BREATHE	 ECO GREEN	 RECYCLABLE	 MIX MECHANICALLY	 APPLY BY INOX SPATULA	 APPLY BY TROWEL	 STORAGE: IN A DRY PLACE

PROBLEM

RECONSTRUCTING STONE DETAILS



In the various restoration operations, problems often occur of repairing or reconstructing panels, cornices, doorways in stone of various kinds such as tuff, marble, grey Italian sandstone etc.

SOLUTION

BioSTONE REPAIR is a premixed mortar based on desalinated white hydraulic lime with final chemical and physical properties compatible with various types of stone used in building. **BioSTONE REPAIR** possesses strong adhesion, high workability, low elastic modulus and high resistance to atmospheric agents.



APPLICATION FIELDS

BioSTONE REPAIR is indicated for numerous applications in restoration work and replacing missing parts in various types of stone. Restoration of details, cornices, frontages, doorways etc.

ADVANTAGES

- High workability.
- Optimal chemical and physical compatibility with the various types of stone.
- High adhesion.
- High resistance to atmospheric agents.

METHOD OF USE

• PREPARING THE SUPPORT

Substrates must be solid and free of flaking parts, dust, oil, grease and general dirt. Damp absorbent surfaces avoiding films of water.

• PREPARING THE MIX

BioSTONE REPAIR must be mixed with clean water only. Use a drill at low speed with a suitable paddle (1). Avoid mixing for longer than the time required for obtaining a uniform paste free of lumps.

The only things that can be added are oxides or coloured earths to make the colour of the stone to be repaired.

• APPLICATION

The product can be applied with a stainless float or trowel (2) without the need for formwork as the product is highly thixotropic.

• COVERAGE

Coverage is about 18 kg/m²x cm.

• PRECAUTIONS

- Use cold water in the summer and water at 20°C in the winter.
- Application temperature from +5°C to +35°C.
- Do not add other materials such as bonding agents, aggregates or additives.
- In hot weather, keep the surface of the laid mortar wet, preventing the product from drying out quickly, for at least 8 hours.
- Wet the surfaces in high temperatures.
- Do not add water when the mix starts to set.
- Avoid sudden temperature changes while the plaster is setting.
- Store in original closed packaging in a dry place. Protect against frost and high temperatures.



Mortar for renovations

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TECHNICAL CHARACTERISTICS

	Standard	BioSTONE REPAIR
Appearance		Powder
Colour		White
Particle size		0 to 0.7 mm
Apparent density		1.25 ± 0.05 kg/ℓ
Mixing water		26% ± 1%
Storage in original packaging in a dry place		12 months
Mix properties and workability	Standards	
Density of the mix	EN 1015-6	1.75 ± 0.05 kg/ℓ
Application temperature		+5°C to +35°C
Minimum application thickness		2.0 mm
Maximum application thickness per layer		30.0 mm
Application		Manual
Performance characteristics	Standards	Product performance
Class and type	EN 998-1	GP
Resistance to compression - after 28 days	EN 1015-11	6.0 N/mm ² - CS III
Resistance to bending - after 28 days	EN 1015-11	2.5 N/mm ²
Adhesion to substrate	EN 1015-12	≥0.5 N/mm ² - FP: A
Water absorption through capillarity	EN 1015-18	W0
Water vapour permeability coefficient	EN 1015-19	μ = 20
Thermal conductivity λ_{10,dry}	EN 1745 A.12	0.76 W/mK
Durability	EN 998-1	5.2.3.2 compliant
Thermal resistance - Working temperature		-30°C to +90°C
Reaction to fire	EN 13501-1	A1
Hazardous substances	EN 998-1	According note in ZA.1

Test conditions: temperature 23±2°C, 50±5% R.H. and air velocity in test area <0.2 m/s. **These parameters may vary based on the specific conditions of the worksite: temperature, humidity, ventilation, porosity of the substrate.**

(*) The stated times may be longer or shorter as the temperature decreases or increases.

Compliant with the general principles defined in **EN 998-1** - Principles for evaluation of the use of products and systems.

the numerous possible uses and the possible interference of conditions or elements beyond our control, we assume no responsibility regarding the results which are obtained. The purchasers, of their own accord and under their own responsibility, must establish the suitability of the product for the envisaged use.

The figures shown are average indicative figures relevant to current production and may be changed or updated by INDEX at any time without previous warning. The advice and technical information provided, is what results from our best knowledge regarding the properties and the use of the product. Considering

PACKAGING

BioSTONE REPAIR
25-kg Sack

• FOR ANY FURTHER INFORMATION OR ADVICE ON PARTICULAR APPLICATIONS, CONTACT OUR TECHNICAL OFFICE • IN ORDER TO CORRECTLY USE OUR PRODUCTS, REFER TO INDEX TECHNICAL SPECIFICATIONS •

 Construction Systems and Products Via G. Rossini, 22 - 37060 Castel D'Azzano (VR) - Italy - C.P.67 T. +39 045 8546201 - F. +39 045 518390	Internet: www.index-spa.com Informazioni Tecniche Commerciali tecom@indexspa.it Amministrazione e Segreteria index@indexspa.it Index Export Dept. index.export@indexspa.it		 UNI EN ISO 9001	 UNI EN ISO 14001	 index socio del GBC Italia	
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