

Description

Betonfix AL is a ready-to-use, self-levelling, non-shrink mortar with high mechanical resistance for both short and long curing. The product has excellent adhesion properties to the substrate, high resistance to sulphates and is free from chlorides or metal particles. Betonfix AL is compliant to the UNI 8147 standard. When mixed with water, the product becomes a very fluid mortar without presenting segregation or bleeding phenomena.

**Uses**

Betonfix AL is used to fix chain tighteners on metal structures, to install prefabricated reinforced concrete elements, to anchor machineries and to underpin.

Application

Betonfix AL is ready-to-use on the addition of 3,8 - 4,2 litres of drinking water per 25 kg pack, according to the consistency required (fluid or very fluid). The substrate to be treated must be perfectly clean, free from grease, oil and separating agents in general; roughen the concrete surface with a bush-hammer. Soak the substrate eliminating any pools of water when casting. Mix Betonfix AL for about 5 minutes with a cement-mixer or, for small quantities, with a mechanical stirring device and an agitator. Always add 3/4 of the water required first, then pour the product and the remaining water continuously until you obtain the consistency required. Too much water will separate the components and cause the product to lose its mechanical and chemical characteristics. Once a smooth and free of any lumps mix forms, pour the mortar on one side to let air out from the opposite one. For large slabs use a slipping method by employing metal reinforcements, suspended pumps and funnels, making holes in the slab for the outlet of air. In layers that are more than 10 cm thick, mix Betonfix AL with approx. 30% of the washed inert siliceous material with 6-10 mm granulometry.

Characteristics	Value
Appereance	Powder
Colour	grey
Apparent specific weight UNI 9446	1,40±0,1 g/cm ³
Hazard classification 1999/45/CE e 67/548/CEE	Irritant
Maximum inert material size UNI EN 1015-1	2 mm
Apparent volumetric mass of wet mortar UNI EN 1015-6	2250 ± 50 Kg/m ³
Consistency UNI 7044/72	> 200 %
Pot life UNI EN 1015-9	200 ± 30 mins
Setting time (start) UNI EN 196-3	340 ± 30 mins
Setting time (end) UNI EN 196-3	480 ± 30 mins
Minimum application temperature	+5 °C
pH of mixture	12 ± 0,5
Contrasted expansion UNI 8147	0,06 %
Exudation UNI 8988	Absent

Proprietà della boiaccia indurita	Value
Compression strength 1 day UNI EN 12190	> 30 MPa
Compression strength 7 days UNI EN 12190	> 50 MPa
Compression strength 28 days UNI EN 12190	> 70 MPa
Flexural strength 1 day UNI EN 12190	> 7 MPa
Flexural strength 7 days UNI EN 12190	> 8 MPa
Flexural strength 28 days UNI EN 12190	> 9 MPa
Modulus of elasticity 28 days UNI 6556	25000 ± 1000 MPa

Package

25 kg multilayer polythene bag. 1,500 kg pallets.

Coverage

21 Kg/m² for each centimetre of thickness.

Storage

Protect from humidity. Store the product in a dry, sheltered place. Stored in these conditions and in unopened containers, the product remains stable for 12 months.

Warning

Product for professional use. Do not remix by adding water to the product when it has already started to set. Do not add concrete, additives or other Betonfix mortars. Before using, check bags have not been damaged, and do not use the product if there are any lumps. Use the entire contents once the bag has been opened. Take all necessary precautions to ensure correct curing of the casting. Do not use at temperatures of under +5 °C. Wet with water for the first 48 hours, or cover with plastic sheets or damp jute bags. Do not use anti-evaporation agents in case other coatings are to be performed. The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product. It is the customer's responsibility to check that this data sheet is still effective and has not been replaced with a more recent version, and that the product is suitable for the intended use.

