



Betonfix MC

ST4-0221

Fibre-reinforced cementitious product to be mixed with aggregates used to make mortars and concretes subjected to severe working conditions

DESCRIPTION

Betonfix MC is a fibre-reinforced, powdered adhesive. Mixed with an appropriate ratio of washed sand of a suitable granulometry and water, it provides mortars and thixotropic cement-based products that are highly adhesive to substrate, waterproof and long-lasting even in highly corrosive conditions. The internal polypropylene fibres considerably improves the flexural and impact strength, and increases the thixotropy of the mortar (making possible to use it even in high-thickness applications). Moreover, the use of specific additives improves the workability of the fresh mortar. For specific tasks, lime binder can be added to the mixture.

ADVANTAGES

- Versatile: with aggregates, for roughcast, adhesive bridges and mortars with high characteristics of adhesion to the substrate, impermeability, durability even in highly aggressive environments.

USES

Betonfix MC mixed with water and sand, it is suitable for plasters, screeds with excellent chemical-physical properties, adhesive bridges for screeds and plasters on RC structures, partial renovation of old and degraded plasters.

APPLICATION



Paint roller or brush application



Mechanical devices application

Mix **Betonfix MC** in a concrete-mixer with potable water and washed inert materials for about 4-5 minutes. The granulometry and the dosages of the inert materials change according to the use of the mixture (as specified below). Do not use a quantity of water exceeding the necessary, depending on the moisture content of the inert materials (for screeds, the mixture should have the same consistency as damp soil). Exceeding in water content will impact on the final mechanical performance of the product. Do not mix in the concrete-mixer for longer than 5 minutes. Surfaces to be treated should be compact, cleaned thoroughly with a high-pressure washer and wat creating SSD conditions. If the surfaces to be treated do not have a good mechanical resistance, contact our Technical Dpt. Mix **Betonfix MC** with the same quantity of washed sand (granulometry 3 mm), add potable water and apply by spray or push broom. Lay the mortar for the screed on fresh adhesive bridge.

CONSUMPTION

1-3 kg/m² as adhesive bridge for plasters or screeds.
350 - 500 kg /m³ for plasters and screeds.

PACKAGING

20 kg multilayer polythene bag

STORAGE

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

Use	Aggregates suggested	Consumption of Betonfix MC
Screeds with maximum thickness up to 4 cm	Washed sand From 0 to 5 mm	400-500 Kg/m ³
Screeds with maximum thickness up to 8 cm	Washed aggregate From 0 to 10 mm	400-500 Kg/m ³
Rough coat for plasters	Sand From 0 to 5 mm	600-700 Kg/m ³
Plasters with maximum thickness up to 3 cm	Sand From 0 to 3 mm	350-450 Kg/m ³
Plasters with high thickness	Washed sand From 0 to 6 mm	350-450 Kg/m ³

Characteristics	Value
Appearance	Powder
Colour	Grey
Hazard classification 1999/45/CE e 67/548/CEE	Irritant
Minimum application temperature	+5 °C
pH of mixture	12 ± 0,5
Stability EN 196-3	< 10 mm

Characteristics of cured product	Value
Compression strength 1 day EN 196-1 modificata(*)	> 4 MPa
Compression strength 7dd EN 196-1 modificata(*)	> 16 MPa
Compression strength 28 dd EN 196-1 modificata(*)	> 19 MPa
Flexural strength 1d EN 196-1 modificata(*)	> 1 MPa
Flexural strength 7 dd EN 196-1 modificata(*)	> 3 MPa
Flexural strength 28 dd EN 196-1 modificata(*)	> 3,5 MPa

(*) Mixing ratios Betonfix MC/aggregates is 1:2

WARNING

Product for professional use. Only use enough water to obtain the right mix. 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 castings. To protect against high temperatures and wind, wet with water for the first 48 hours or cover with a plastic sheets or damp jute bags; or if not stacked in layers, spray with anti-evaporating agent. Do not use at temperatures below +5 °C. Do not apply on substrates with loose parts.

For further information and advice on safe handling, storage and disposal of chemical products, the user must refer to the most recent Safety Data Sheet, containing physical, ecological, toxicological and other data related to safety.

All technical data shown in this Technical Data Sheet are based on laboratory tests. Actual measurement data may

vary due to circumstances beyond our control.

The information and requirements indicated in this Technical Data Sheet are based on our current knowledge and experience and are to be considered, in any case, purely indicative. They cannot guarantee the final result of the applied product and they have to be confirmed by exhaustive practical applications; therefore the user must test the suitability of the product for the intended application and its purpose. Users must always refer to the latest version of the local technical data sheet related to the product.