

*Thixotropic fibre reinforced rapid mortar,
applicable in thicknesses from 3 to 40 mm in one coat.*

Description

Betonfix RR is a thixotropic fibre reinforced rapid mortar (with workability of about 20 minutes at 20°C) for the non structural repair and levelling interventions.

Though being a levelling mortar; Betonfix RR shows particularly high performances, which make it suitable for the use in those cases in which a non structural filling with a more consistent thickness is required for the filling of localized little gaps before levelling the surface.

Thanks to this peculiarity, the product simplifies the interventions (it is not necessary to fill the gaps with a repairing mortar and wait until it is cured to proceed subsequently to the levelling of the surface)

Do not use the mortar for structural continuous cortical repairs with centimetre thickness.

Uses

- Rapid repair of reinforced concrete structures such as ledges, balcony front edges, etc...
- Levelling of irregularities on the surface of reinforced concrete castings (gravel nests, holes of the spacers, etc...)
- Repair and levelling of string course between floors, prominent and decorative elements.
- Repair of pre-cast structures.

Advantages

- Rapidity of implementation
- Product can be finished with trowel for 40 minutes, even if rapid.
- Applicable in thickness from 3 to 40 mm in one coat
- Excellent workability both as levelling and repair mortar
- Excellent adhesion
- Dimensional stability
- Low water permeability

Application

The support should be completely clean, compact, free from dust, oil, paints, etc...

Accurately remove the deteriorated and inconsistent concrete until finding a compact and sufficiently roughened support (do not apply on smooth supports).

Wet to saturation the area to be treated and remove possible water stagnation at the moment of the casting. In case exposed reinforcement rods are present, they must be freed from the concrete which is in contact with them through needle gun; water sandblast the total surface and apply Betonfix KIMIFER in two coats: the first one on the reinforcement rods, the second one applied on all the area of intervention, as adhesion promoter. Betonfix RR is ready to use with simple water addition of about 4,8 litres of drinking water for each bag of 25 Kg.

Mix for some minutes taking the precaution to first introduce the $\frac{3}{4}$ of necessary water and then pour the product and the remaining water until obtaining the desired consistency. Apply with trowel.

Packaging

Multi-layer polythene bag of 25 Kg. 1.500 Kg. Pallet.

Consumption

18 Kg/m² for each cm of thickness.

Storage

Protect from humidity. Store the product in a dry and sheltered place.

In these conditions and in intact bags its stability is of 12 months.

Characteristics	Value
Aspect	Powder
Colour	Grey
Apparent specific weight UNI 9446	1,38 ± 0,1 g/cm ³
Hazard classification 1999/45/CE and 67/548/CE	Irritating
Maximum inert material size UNI EN 1015-1	0,6 mm
Apparent volumetric mass of the wet mortar UNI EN 1015-6	2042 Kg/m ³
Mixture consistency UNI 7044/72	10-30 %
Start setting time UNI EN 196-3	30 minutes
End setting time UNI EN 196-3	42 minutes
Minimum application temperature	+5 °C
pH of mixture	12 ± 0,5
Contrasted expansion UNI EN 8147	0,06 %
Fire reaction class	F
Dangerous substances	In compliance with DM 10/05/2004

Characteristic	UNI EN 1504-3 limits for R2 mortars	Value
Compression strength 28 days UNI EN 12190 [MPa]	≥ 15	> 35
Chloride content [%]	≤ 0,05	≤ 0,05
Concrete adhesion 28 days UNI EN 1542 [MPa]	≥ 0,8	≥ 2
Concrete adhesion (UNI EN 1542) after frost thaw cycles EN 13687-1 [MPa]	≥ 0,8	≥ 1,5
Waterproofing (capillary absorption coefficient UNI EN 13057) [Kg/m ² ·h ^{1/2}]	≤ 0,5	≤ 0,5
Waterproofing (water permeability coefficient EN 1062-3) [Kg/m ² ·h ^{1/2}]	Not required	W < 0,1 Class III along with EN 1062-3
Water vapour permeability EN ISO 7783-1	Not required	Sd < 5 Class I (permeable to water vapour)

Characteristic	Value
Compression strength UNI EN 12190 [MPa]	At 1 day > 15 7 days > 25 28 days > 35

Characteristic	Value
Flexural strength UNI EN 12190 [MPa]	1 day > 6
	7 days > 7
	28 days > 9
Concrete adhesion 14 days UNI EN 1542 [MPa]	3 mm application > 2,9
	25 mm application > 2,1



Warning

Product intended for professional use.

Do not remix by adding water to the product when it has already started to set.

Do not add cement, 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 content once the bag has been opened. Take all necessary precautions to ensure correct curing of the casting.

Do not use at temperatures 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 specification and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final result obtainable with the product.

It is the customer's responsibility to check that the product is suitable for the intended use and that this data sheet is still effective and has not been replaced with a more recent version (the most recent version of this data sheet is downloadable through the QR-code present in this document).