



Betonfix RR

ST4-0421

Thixotropic fibre-reinforced mortar for localised cortical repair of concrete and skimming coats on concrete structures



DESCRIPTION

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

CE marked product for R2 mortars in compliance with the EN 1504-3, **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 level the surface)

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





ADVANTAGES

- System 2 in 1: Restoration and skim coating at the same time; In case of elements requiring localised renovation and a general skimming, it is possible to perform the work in 1 day and with a single coat.

USES

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

APPLICATION

	Manual Application		Rapid curing time: 30 mins
			Mixing water: 4,5-5 lt/ 25Kg variable according to the desired workability
	Max thickness per coat: 2-30 mm for horizontal application 2-30 mm for vertical application 2-20 mm for overhead application		

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

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

Wet the area to be treated until SSD conditions and remove possible water stagnation before the application. In case of exposed reinforcement rebars, they must be cleaned from the concrete which is in contact with them through needle gun; water sandblast the surface and apply by brush **Betonfix KIMIFER** on the rebars.

Betonfix RR is ready-to-use with simple addition of potable water for each bag.

Mixing must be carried out in a cement mixer or in the mixer of the spraying machine for at least 5 minutes until you get a proper plastic, homogeneous, lump-free mixture. A mortar mixer or a drill equipped with an agitator can be used, it depends on the quantity to be prepared. Mixing must take place at low speed to avoid entrapping air. Introduce 3/4 of water required and continuously both product and remaining water until you get the consistency desired. Apply by trowel.

CONSUMPTION

1,5 Kg/m²/mm.

PACKAGING

Multilayer polythene bag

STORAGE

Protect from humidity. Store the product in a dry and sheltered place. In these conditions and intact bags, it maintains 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	Irritant
Maximum inert material size EN 1015-1	0,6 mm
Apparent volumetric mass of the wet mortar EN 1015-6	2042 Kg/m ³
Mixture consistency UNI 7044/72	10-30 %
Start setting time EN 196-3	30 minutes
End setting time EN 196-3	45 minutes
Minimum application temperature	+5 °C
pH of mixture	12 ± 0,5
Contrasted expansion EN 8147	0,06 %
Fire reaction class	A1
Dangerous substances	In compliance with DM 10/05/2004

Characteristics (mixing water 19%)	Limits EN 1504-3 for R2 mortars	Value
Compression strength 28 days EN 12190 [MPa]	In 28 days >15	In 1 day >10 In 7 days > 25 In 28 days > 35
Flexural strength EN 12190 [MPa]	Not required	In 1 day >3 In 7 days > 5,5 In 28 days > 7
Chloride content [%]	≤ 0,05	≤ 0,05
Concrete adhesion 28 days EN 1542 [MPa]	≥ 0,8	≥ 2
Concrete adhesion (EN 1542) after frost thaw cycles EN 13687-1 [MPa]	≥ 0,8	≥ 1,5
Waterproofing (capillary absorption coefficient 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)
Concrete adhesion in 14 days EN 1542 [MPa]	Not required	Application in 3 mm > 2,9 Application in 25mm > 2,1

WARNING

Product intended for professional use.

Given the possibility that different supplies of the same raw materials have slightly discordant colors, including a lot of production and the other may be minor color variations that do not affect in any way the technical performance of the products supplied.

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.

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.