



BETONTEX FB-RC02 IMPREGNATOR EPOXY RESIN AND HARDENER

Component of the **BETONTEX System** with Technical Assessment Certificate No. 415/2018 pursuant to Ch.11, item 11.1, letter c of M.D. 01.17.2018. (Nota1)

FB-RC02 Thixotropic epoxy resin with adhesive and impregnating function for the application of tapes, fabrics or nets to the substrate to be reinforced. The product is supplied in two components, the resin and the hardener, whose dosage must be made by weighing in a 2:1 proportion.

BETONTEX FB-RC02

TECHNICAL DATA

	Description
Commercial Name	Betontex FB-RC02
Manufacturer	Fibre Net SpA
Resin type	Two-component epoxy

PHYSICAL CHARACTERISTICS

Property	UoM	Value		Ref.
		winter version	summer version	
Catalysis ratio	-	2 : 1		
Specific weight at 20 °C	g/cm ³	1,10 ± 0,05		
Pot life at a temperature of	5 °C	--	--	
	10 °C	100	--	
	20 °C	45	--	
	30 °C	20	60	
	40 °C	10	40	
Hardening time at 20 °C	h	12 to 24	14 to 24	
Total hardening time at 20 °C	day	7	7	
Temperature for application	°C	7 / 25	30 / 40	
Thermal transition temperature T _g	°C	74		ISO 11357-2:1999 (DSC)

MECHANICAL CHARACTERISTICS

Property	UoM	Value	Ref.
Tensile strength	MPa	60	ISO 527-1-2
Tensile elastic modulus	MPa	3000	ISO 527-1-2
Tensile elongation	%	2,9	ISO 527-1-2
Compressive strength	MPa	60	ASTM D695
Shear resistance	MPa	> 14	UNI EN 12188
Compressive shear strength	MPa	α 50°C > 60 α 60°C > 70 α 70°C > 80	UNI EN 12188
Tensile strength	MPa	> 20	UNI EN 12188
Linear shrinkage at 30°C	%	0,068	UNI EN 12617-1
Compressive strength	MPa	> 70	UNI EN 12190
Durability		exceeded specification	UNI EN 13733
Adherence		exceeded specification	UNI EN 12188
Water sensitivity		compliant	
Tensile elastic modulus	MPa	> 2000	ISO 527-1-2
Tensile elongation at break	%	> 2,5	ISO 527-1-2
Tensile breaking load	MPa	> 60	ISO 527-1-2

BETONTEX FB-RC02

Performance characteristics according to EN 1504-4 standard
(CE marking as a product/system for the protection and repair of concrete structures by structural bonding)



LAYING INSTRUCTIONS

The dosage of two components shall be accurately performed, by weight, following the 2:1 ratio between resin and catalyst. The amount of resin to be prepared shall be adequate for the size of the application and the pot life. Application may be performed using a brush or paint roller. An indicative value for consumption is 300 g/m², but the effective amount of resin to be consumed depends on the substrate porosity and its absorption capability.

PACKAGING

Consumption: for fabrics about 2 times the weight per m², for nets about 6 times the weight per m²
Packaging: 6 kg (4 kg component A and 2 kg component B)
1.5 kg (1 kg component A and 0.5 kg component B)

HANDLING AND STORAGE CONDITIONS

Resins should be stored in a dry place with low relative humidity and temperatures between 10 °C and 30 °C, should not be stored in direct contact with the ground and should be protected from sunlight and from direct or indirect sources of air that is too cold and/or too hot. Always keep component "A" separate from component "B." In tightly closed original packaging, the maximum shelf life is 2 years from the date of manufacture.
The product is stable under normal conditions of use and storage.

SAFETY INSTRUCTIONS

The operator must use gloves, goggles, and a solvent mask. For more information and advice on safety regulations and the use and storage of chemicals, refer to the most recent Material Safety Data Sheet.

Note 1: Where applicable.

The instructions reported herein about the mode of usage of our products correspond to our current knowledge and will not imply any responsibility for the final result of the works. The buyers are not relieved of their obligation and responsibility to verify that our products are suited for the use and the aims they are seeking. Fibre Net srl will not be liable for any improper use of the materials. The customers are bound to verify that this sheet and the information contained herein are valid for the products purchased and that they have not gone outdated and have been replaced by later editions and/or new product versions. The customers are recommended to contact our Technical Department before using the products.
The present edition supersedes all other previous versions.