



# **BETONTEX**

## **FB-RC30/3**

### **ADHESIVE**

### **EPOXY RESIN BINDER AND HARDENER**

Component of the **BETONTEX System** with Technical Assessment Certificate No. 244/2019 pursuant to Ch.11, item 11.1, letter c of M.D. 01.17.2018. (Nota1)

**FB-RC30/3** Properly thickened thixotropic epoxy resin, to be used with a trowel, useful to uniform the surface and make it suitable for the application of carbon fiber plate reinforcements and for the grouting of bars. The product comes in two components, the resin and the catalyst, whose dosage should be done by weight in a 4:1 proportion.

# BETONTEX FB-RC30/3

## TECHNICAL DATA

	Description
Commercial Name	Betontex FB-RC30/3
Manufacturer	Fibre Net SpA
Type of resin	Two-component thixotropic epoxy

## PHYSICAL CHARACTERISTICS

Properties	UoM	Value	Ref.
Catalysis ratio	-	4 : 1	
Specific weight at 25 °C	g/cm <sup>3</sup>	1,55 / 1,75	
Pot life at a temperature of	5 °C		
	10 °C	120 / 150	
	20 °C	70 / 80	
	30 °C	40 / 50	
	40 °C	20 / 30	
Initial hardening time at 20 °C	h	18 a 24	
Total hardening time at 20 °C	gg	7	
Temperature for application	°C	5 / 40	
Glass transition temperature T <sub>g</sub>	°C	63	ISO 11357-2:1999 (DSC)

## MECHANICAL PROPERTIES

Properties	UoM	Value	Ref.
Tensile strength	MPa	60	ISO 527-1-2
Tensile elastic module	MPa	3000	ISO 527-1-2
Tensile elongation	%	2,9	ISO 527-1-2
Compressive strength	MPa	60	ASTM D695
Shear strength	MPa	> 12	UNI EN 12188
Compressive shear strength	MPa	a 50° > 40 a 60° > 60 a 70° > 70	UNI EN 12188
Tensile strength	MPa	> 50	UNI EN 12188
Linear shrinkage at 30°C	%	0,046	UNI EN 12617-1
Compressive strength	MPa	> 50	UNI EN 12190
Durability		exceeding specification	UNI EN 13733
Adhesion		exceeding specification	UNI EN 12188
Moisture susceptibility		compliant	
Tensile elastic modulus	MPa	> 3000	ISO 527-1-2
Tensile elongation at break	%	> 2,9	ISO 527-1-2
Tensile strength at break	MPa	> 50	ISO 527-1-2

# BETONTEX FB-RC30/3

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)



## APPLICATION INSTRUCTIONS

The dosage of two components shall be accurately performed, by weight, following the 4:1 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. The application shall be done with a trowel.

Indicative consumption is 1.5 kg/m<sup>2</sup>/mm thickness, which in the case of sheets is equivalent to about 3 - 5 kg/m<sup>2</sup>. In the case of bars, consumption can be estimated at about 1.5 - 3 kg/m bar in the case of 12 - 14 mm diameter bars. Actual consumption may vary depending on the degree of finish of the substrate.

## PACKAGING

Usage:	- for sheets from 3 to 5 kg/m <sup>2</sup> - for bars about 1,5 - 3 kg/m
Packaging:	5 kg (4 kg component A and 1 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 the 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 purchaser is responsible for verifying the suitability of the products described in this document for their intended use and purposes. Fibre Net srl assumes no responsibility for improper use of the material. It is the customer's responsibility to verify that this sheet and the data contained herein are valid for the batch of product of interest to him and are not superseded as replaced by subsequent editions and/or new product formulations or certifications. The customer is encouraged to contact our Technical Department in advance. This edition invalidates and overrides all previous ones.