REFOR-tec® GF 5 /

Description is a tri-component cement based product of the REFOR-tec series, which combines the self levelling rheology with exceptional physical-mechanical properties and ductility. .

Packaging, proportions and use

Packaging for big volume jobs

Comp. **A**	**POWDER** (bags of 25 Kg. on pallet) :	**1.100 Kg.**
Comp. **B**	**LIQUID** (in drum)	**137.5***
Kg. Comp. **C**	FIBRE **FIB-energy ® ST / HS** (in bags of 25 Kg.) :	
	TOT:	**1.287.5 kg**

The components are dosed on the jobsite according each to individual mix. Mix during about 9 minutes with a highly efficient vertical axes mixer in following sequence:

p.ex. : with a mixer of 250lt use 10 bags powder = **250 Kg. comp. A powder + 31.25 Kg. comp. B liquid (12.5% calculated on powder A) + 11,25 Kg. comp. C fibres (4,5% calculated on powder comp A)** :

↓

Add 5 bags powder (comp. A) in the mixer

+ comp. B liquid during mixing, till a fluid consistency is obtained (about half of the total liquid~ 13-14 Kg.)

+ 5 bags, adding 1 bag of powder, mixing with a small amount of liquid B till the paste is homogenous again, repeating this operation till all powder A and Liquid B has been added in the correct amounts.

+ at the end add Comp. C fibres, gradually, always during mixing, till a homogeneous paste is obtained.

Note : depending on the operative conditions and fluidity of the mixing required, the ratio B can be reduced to a minimum of 2.75 kg

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Packaging for smaller applications of for distribution

Comp. **A**	**POWDER** (1 bag of 25 Kg.)	1 pail of 26,13 Kg
Comp. **C** **HS**	FIBRE **FIB-energy ® ST /**	
Comp. **B**	**LIQUID** (in 1 can of 3.125 Kg.)	1 can of 3,125 kg
	TOT.	**29.255 kg**

The product can be mixed in the original pail of the packaging using adequate equipment (a helicoidal mixer attached to power drill) . Follow the logic of mixing as suggested above: Powder + liquid + fibre.

NOTE : * The fibre FIB-energy® ST / HS must be handled with gloves to avoid injuries to the skin. !

* depending on the operative conditions and fluidity of the mixing required, the ratio B can be reduced to a minimum of 2.75 kg.

Application

- for the production of thin layered structural elements
- for structural repairs by casting in moulds or confined areas.
- for the re-strengthening in thin section of floors
- to accommodate seismic activity by absorption and transfer of tear and tensile stresses in case of high dynamic solicitations.
- for the structural reinforcement resisting to fire of beams and pillars
- for the repair of floors with the requirement of high resistance to dynamic and static solicitations and exceptional resilience values.

Technical characteristics (typical values)

• workability time	≥ 1 h
• accepting foot traffic	12 h at 20 °C
• resistant to light traffic	24 h at 20 °C
• resistance to maximum use	3 d. at 20 °C
• Density	2.450 Kg/m^3
• compressive strength	130 MPa
• flexural strength	8,5 MPa
• tensile strength	32 MPa
• tear strength	16 MPa
• Modulus of elasticity	38 GPa
• Fracture energy	32.500 N/m
• Endogen shrinkage	< 0,05 %
• depth of carbonation	0

Storage

6 months in closed and original packaging, stored in protected area.

Safety indications

Read carefully the indications on the packaging, or request the relative safety datasheet of this material.

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