



BALANCED HIGH STRENGTH BIDIRECTIONAL CARBON FIBER



PRODUCT DESCRIPTION

CF W 200 is a bidirectional carbon fiber fabric with balanced weight, characterized by high modulus of elasticity and very high tensile strength that can be placed using two different methods:

- wet system;
- dry system.

by using the following range of epoxy resins:

- Epo Primer ST, suggested for the strengthening of the substrate.
- CF W2, recommended for the leveling of surfaces with a roughness equal or greater than ± 2 mm.

LIMITATIONS

- Not be used on wet surfaces.
- Not be used on dirty or crumbling surfaces.

FIELD OF APPLICATION

- Repair, maintenance and static upgrade of deteriorated structures, where it is absolutely necessary to reinforce the flexural and shear strength of the cross section.
- Confinement of axially loaded or damaged concrete elements (columns, bridge piers, chimneys) in order to improve ductility and load bearing capacity where at the same time it is necessary to compensate the reduction of the area that needs reinforcement.
- Seismic strengthening and restoration of vaulted structures without the increase of seismic mass and without the danger of liquid percolation towards the internal surface of an archway.
- Repair of bi-dimensional structures such as slabs, plates, small vaults and tanks.
- Repair of structures damaged by fire.
- Reinforcement of load bearing elements in buildings that have been restructured for architectural reasons or change of use.

APPLICATION PROCEDURE

A) Preparation of the support

The surface must be free of detached parts, plaster, paint, oil or grease. After thorough cleaning, the surface is roughened by a metallic brush. - Existing cracks in the concrete should be repaired by injections with EPOINJECT products. - External corners must be rounded to a radius of 10 - 30 mm. - Surface should be as flat as possible. Any superficial defects should be repaired using Epo Primer ST.

B) Applying the product

Firstly, apply CF W2 on the surface which will be treated. Then, CF W 200 is put carefully on the surface. Tiles are slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Tile direction should follow the direction of elastic forces and its fibers should be as straight as possible.

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.

- Following that, the fabric layer is covered on the outside with CF W2 and then, quartz sand is poured on the layer, as long as it is still fresh, in order to apply later a protective, cement-based layer (plaster).

- If more than one layer of fabric is specified, repeat the above-mentioned process. In this case the previous layer should not be completely dry otherwise rubbing is necessary before starting the new application.

- Then, the last fabric layer is brushed off from the outside with CF W2 and then quartz sand is placed on the resin layer which is still wet, so as later to apply a protective, cement-based layer (plaster).

SHELF LIFE

Original sealed bags of this product are guaranteed to be of first quality for 24 months if stored off of the ground in a dry area. High humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

CP 40 is an article referring to the current European regulations (Reg. 1906/2007/CE - REACH) that does not require the preparation of the Safety Data Sheet. During the use, it is recommended to wear gloves and goggles and follow the safety requirements of the workplace. PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

| Product identity | |
|------------------------------|------|
| Tensile strength (MPa) | 2800 |
| Modulus of elasticity (GPa) | 163 |
| Ultimate strain (%) | 1,60 |
| Density (g/cm ³) | 1,60 |



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