

TecnoFib CW240

CARBON FIBRE REINFORCEMENT SYSTEM

Description Carbon fibre with hot- welded and perfectly balanced, bi-directional wrap.

Advantages and characteristics The mechanical performance of the reinforcement system Tecnofib CW240 shows a typical linear elastic behaviour till break. The tolerated static load applied, shall be 1/3 of the tensile strength of the fibre.

- Fields of use**
- Vaults
 - Masonry walls

Method of use The product is applied to the surface of the structural elements to be reinforced, by mean of epoxy adhesives (TECNOEPO 701 UNIC).

The installation of the fibre tissue with the adhesive can be made only after a thorough preparation of the substrate, using sand or grid-blasting, in order to remove all dust and incoherent parts. When the substrate is deteriorated or, in order to improve adhesion properties of the system, it is advisable to apply epoxy putty (TECNOEPO R) to level and repair the surface. The installation of the fabric has to start by the application by roller or brush of an epoxy primer, about 0,800 kg/m², on the internal contact substrate of the fibre.

Position the fibres, and roll with a special roller to release air and to allow the penetration of the resin into the fibre tissue. For consecutive layers, follow the same procedure, starting with the epoxy adhesive application. The curing depends on the reticulation time of the epoxy resin and it is linked to the climatic conditions like temperature and humidity. In particular, applications at temperature lower than +10°C, and at high relative humidity should be avoided. In case of application at temperatures below +10°C, and in order to have a pot life of the epoxy adhesive not too much delayed, it is advisable to heat slightly the environment.

Remarks The positioning of the fibre must follow the directions of the design therefore inter-crossed positioning of the tissue, will contribute to a particular anisotropic behaviour in the reinforcement.

Packaging Rolls of 100 linear meters, width 20 or 50 cm

- Technical Characteristics (typical values)**
- Principal mechanical characteristic: high tenacity
 - Tensile strength: 4800* MPa
 - Elasticity modulus at tensile strength: 240 GPa
 - Elongation: 2,1 %
 - Density: 1,82 g/cm³
 - Weight: 170 g/m²
 - Fabric thickness at 0° and 90°: 0,115 mm

* the tensile strength is also similar for the orthogonal direction

Safety indications Read carefully the indications on the packaging, or consult the specific Material Safety Datasheet.

VHDRS[®] *CarFib*

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