VHDRS® CarFib

From Project to jobsite

ISO 9001 BUREAU VERITAS Certification

Certified Quality System since **FEBRUARY 1993**

TecnoFib Glass 73

REINFORCEMENT SYSTEM WITH GLASSFIBRE FABRIC

Description Uni-directional glass-fibre fabric

Advantages and characteristics The mechanical performance of the reinforcement system Tecnofib Glass 73 shows a typical linear elastic behaviour till break. The permissible load advised to adopt the static stresses can be considered 1/3 of the tensile strength of the fibre.
Tecnofib Glass 73 is alkali resistant, indicated for the reinforcement of concrete structures (increases the ductility), or as first layer before application of the carbon fibre reinforcement system.

Indicated use

- Reinforcement of masonry walls.
- Reinforcement of repair or sealing operations.
- Restauration of vaults, gates, masonry.
- Reinfocement of arches, portals.

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 directives of the design and thus inter-crossed positioning of the tissue can be specified, contributing to a particular an-isotropic behaviour of the reinforcement.

Packaging Rolls of 50 m length, and width 20/50 cm

Technical Characteristics (typical values)

- Tensile strength: 2.300 Mpa
- Elasticity modulus (tensile): 73 GPa
- Elongation: 3,5%
- Density: 2,54 g/cm^3
- Theoretic weight: 160/300 gr/m^2
- Thickness calculation: 0,063/0,120 mm

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

TECNOCHEM ITALIANA S.p.A.
24030 BARZANA (BERGAMO) ITALY – VIA SORTE 2/4,
TEL. **39 035 55.48.11 – TELEFAX **39 035 55.48.16
E-mail: info@tecnochem.it - www.tecnochem.it