

**Repair, Reinforcement and Restoration / Structural Reinforcement Products**

# CARBOFIX<sup>®</sup> Tassel Anchor

## Carbon Fiber Based Anchor Structure Reinforcement Element

### DESCRIPTION

Building reinforcement element consisting of **carbon acrylic fiber** and **thermoplastic** yarn in the form of **tassels**, used in the reinforcement of historical buildings, domes and reinforced concrete structures, which allows the meshes to work monolithically with the structure to increase adherence and bearing strength.

### APPLICATION AREAS

- Masonry, vaults and domes
- Reinforcement of reinforced concrete structures against earthquakes with carbon fiber,
- Repair and strengthening of columns, beams and slabs of light - medium damaged structures,
- Repair and reinforcement of deformed and damaged bridges, viaducts and overpasses,
- Renovation and reinforcement of masonry structures,
- Restoration and repair of historical monuments.

### TECHNICAL PROPERTIES

<b>Color</b>	Black
<b>Fiber Type</b>	Carbon Fiber
<b>Shape</b>	Adherence Fiber Ribbed Rod
<b>Length</b>	Variable
<b>Diameter</b>	6 / 8 / 10 / 12 mm
<b>Fiber Length</b>	Variable
<b>Elongation at Break</b>	%1,8
<b>Tensile Strength</b>	> 4.000 MPa
<b>Modulus of Elasticity</b>	> 240 Gpa
<b>Weaving Density</b>	12K

### ADVANTAGES

- Compatible with **CARBOFIX Tex** and **CARBOFIX Grid** products.
- Full adaptation to the masonry structure.
- High adherence and load carrying properties
- Easy to apply, reduces labor costs.
- Flexible, provides resistance against shear stresses.
- No corrosion problem compared to steel.
- Easy to shape.
- Easy to apply with epoxy and hydraulic lime mortar.

### PACKAGING

Upon request

## APPLICATION

### PREPARATION OF THE SURFACE

- The surface must be cured.
- The surface must be clear of weakly adhered parts and materials which prevent bonding, such as dust, oil, tar, paint, curing agents, detergents, mold release oils and silicone.
- The surface must be smooth. If there are significant corrosion or weak parts on the columns, break the concrete and clean the iron reinforcement of rust and repair with **REPOX 690T Epoxy Based Double Component Thixotropic Solvent Free Installation Putty and Repair Mortar** to obtain a smooth and solid surface.

### APPLICATION

- Place the appropriate CARBOFIX Grid product on the mortar.
- Drill anchor holes of suitable diameter on the surface.
- Place the tassels after filling the anchor holes with some epoxy mortar.
- Cover the surface with a second layer of mortar after placing the tassels.

### CAUTION

- Avoid applications at temperatures below +10°C and above +30°C.
- It is recommended to use at least 5 pieces per square meter.
- The distance between the anchors to be opened in the building elements should be 50 cm on average and the anchorage depth should be 2 cm deeper than the rod length.
- Epoxy products must be mixed with a low speed mixing drill. They should never be mixed by hand or with a trowel. No external water, solvent etc. should be added to the mixture.
- Working and hardening times of epoxy resin based products depend on ambient and ground temperature. At low temperatures, viscosity increases, chemical reaction slows down, thus pot life and working time are extended. At high temperatures, the opposite is the case.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours or open to direct sun and wind.
- Do not touch for at least 24 hours and avoid water contact for 48 hours.

### HEALTH AND SAFETY

As with all chemical products, avoid contact with food, skin, eyes and mouth during use and storage. In case of contact, wash immediately with plenty of water and soap, and if swallowed, consult immediately a doctor. During application, wear work clothes, protective gloves, goggles and masks in accordance with occupational health and safety rules. Do not bring food and beverage into the application areas. Do not approach the storage and application areas with fire. Ventilate the area. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50%±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.