

Preparing and applying carbon-fiber or fiberglass connectors

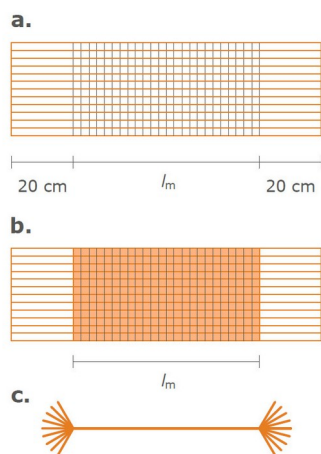
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PREPARING THE CONNECTOR:

a. Cut the fabric **KIMITECH FIOCCO** taking into account the length of the wall (l_m) and 20 cm more for each side;

b. Applying the fluid resin **KIMITECH EP-IN** on the length l_m to be inserted in the hole

c. Roll up the impregnated tissue and leave it to dry.



placed adjacent to the lamina, which must not be drilled.

3) PREPARATION OF CONNECTORS

Cut to length carbon-fiber band **Kimitech FIOCCO CB** or fiberglass band **Kimitech FIOCCO VR** taking in consideration a minimum length of 40 cm (20 cm inserted in the substrate and 20 cm for the unraveling) which will be evaluated in the design phase, considering the type of intervention to be carried out and based on the thickness of the structure. Cut the propylene mesh at the end. Perform the soaking of the part of the staple that will be inserted into the support with epoxy resin **Kimitech EP-IN** (for preparation and consumption refer to the product's Technical Data Sheet).

Roll the impregnated part and leave it to dry. If necessary, to increase adherence in subsequent application phases, before the resin hardens, dust with quartz sand.

APPLICATION DATA SHEET

Structural connections through the creation and application of carbon-fiber or fiberglass staples, by:

1. preparation of the substrate;
2. drilling of the holes;
3. preparation of connectors;
4. insertion of the connector;
5. completion of the procedures.

1) PREPARATION OF THE SUBSTRATE

If the substrate to be reinforced is particularly damaged, restore it. Then proceed with the removal of the damaged parts and the reconstruction of the surface by choosing the most suitable Kimia product line in relation to the type of construction on which the intervention will be performed. If required, apply the type of reinforcement chosen in the project.

2) DRILLING OF THE HOLES

The holes must be made of a suitable diameter depending on the diameter of the chosen staple (refer to the product Technical Data Sheet for the available diameters of **Kimitech FIOCCO CB** and **Kimitech FIOCCO VR**).

The minimum depth must be at least 20 cm and in any case must respect the one envisaged by the project. Once the hole has been drilled, remove dust with compressed air.

Note

In the case of reinforcement performed with **Kimitech PLATE**, carbon staple **Kimitech FIOCCO CB** must be

4) INSERTION OF THE CONNECTOR

Inject into the previously prepared hole the suitable product according to the type of hole to be filled, its location (ceiling holes, horizontal, sloped downwards or vertical etc.) and the type of substrate on which it is applied (more or less porous). Consult our Technical Department to define the most suitable product. Then insert the previously made connector, making the excess product come out (which must then be removed with a metal spatula).

The remaining part of the staple not inserted in the hole will be opened radially and must be soaked using **Kimitech EP-IN**.

5) COMPLETION OF THE PROCEDURES

If protective thick coatings are needed, dust some fine quartz sand ($D_{max} \sim 1 \text{ mm}$) to the fresh soaking resin to ensure adequate surface roughness for subsequent skimming, which should be applied after at least 7 days after the reinforcement is applied.

Dusting is not necessary if you intend to protect the reinforcement with a simple protective coating.