

Structural reinforcement of wooden beams by inserting carbon-fiber foils

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APPLICATION DATA SHEET

Structural reinforcement of wooden beams by inserting carbon-fiber foils through:

1. cleaning and creation of the slots;
2. priming;
3. laying of the epoxy adhesive;
4. application of the foil;

1) CLEANING AND CREATION OF THE SLOTS

Possible shoring of the structures involved in the intervention.

Cleaning of the substrate with total elimination of inconsistent parts and of any material that could compromise the good grip of the following workings.

Realization of the slots for the positioning of the reinforcement foils through flex or instrumentation suitable for horizontal cutting.

2) PRIMING

Application on the treated surface of two-component synthetic resin-based primer in water dispersion **Kimicover FIX** following the minimum consumption indicated in the Technical Data Sheet for wooden substrates.

3) LAYING OF THE EPOXY ADHESIVE

Subsequent injection of two-component thixotropic epoxy resin **Kimitech EP-TX** into the slot using a manual spray gun. The product will have the function of levelling the surface to be reinforced and creating an adhesive layer for the subsequent application of the reinforcement. Minimum consumption: 3 Kg/m² (in the case of wooden substrates).

4) APPLICATION OF THE FOIL

Cut the carbon foils **Kimitech PLATE** to the desired length using a flexible diamond blade. Clean them with **Solvente EPOX**, lightly sandblast the side of the foil to be applied.

Remove dust from the surface and spread on this same side, with a flat trowel, a uniform layer of epoxy adhesive **Kimitech EP-TX**, with a consumption of about 1 kg/m².

Once finished, seal the crack to saturation by injecting resin **Kimitech EP-TX** applied with a manual gun. If the reinforcement requires more layers of carbon, consult our Technical Department.