

DCS C400



DESCRIPTION

Carbon plates for structural strengthening.

CHARACTERISTICS

- Prefabricated tiles that consist of 100% one-way carbon fiber, found in an epoxy resin matrix
- In combination with DCS 2K 400 forms a composite material
- Strengthening of concrete structural elements
- Allows vapor diffusion
- Ensures high tensile and flexural strength

RECOMMENDATIONS FOR USE

Carbon tiles DCS C400 are used as external reinforcement, for outdoor adhesion and bonding of structural elements with the epoxy resin DCS 2K 400. Used for the increase of mechanical forces of beams and concrete columns, for the improvement of the connection of the columns by:

- Strengthening structures with high resistances to seismic movements
- Protecting and strengthening concrete elements from corrosion.
- Increasing cargos, until the change of usage destination
- Repairing concrete structures after damage from earthquakes.

Strengthening with composite materials can be applied to concrete, wood and steel elements and retaining walls.

SURFACE PREPARATION

The surface must be free of detached parts, plaster, paint, oil or grease.

After thorough cleaning, the surface is roughened by a metallic brush.

- Existing cracks in the concrete should be repaired by injections with EPOLO products.
- External corners must be rounded to a radius of 10 - 30 mm.
- The surface should be as flat as possible.

Any superficial defects should be repaired using DCS 2K Primer.

TECHNICAL DATA

Density of the fiber:	200 g/m ²
Density:	224 g/m ²
Thickness:	0,11 mm
Width:	60 cm (± 1 cm)
Length:	50 m (± 0,5 m)
Weight:	6,7 Kg

APPLICATION

Firstly, apply DCS 2K 400 on the surface which will be treated. Then, DCS C400 is put carefully on the surface. Tiles are slowly applied by a special plastic roller in order to achieve a better contact with the surface, complete impregnation and removal of air bubbles. Tile direction should follow the direction of elastic forces and its fibers should be as straight as possible.

- If more than one layer of application is needed, the above-mentioned process is repeated. In this case, the previous layer should not be completely dry; otherwise, you should roughen the surface again.
- Following that, the fabric layer is covered on the outside with DCS 2K 400 and then, quartz sand is poured on the layer, while it is still fresh. Later you can apply a protective, cement-based layer (plaster).

PACKAGING

Roll in 50 m long and 60 cm wide packaging.

HEALTH AND SAFETY INFORMATION

Keep out of reach of children. In case of contact with the eyes or swallowing, please seek medical advice immediately and show the contents of the container. Do not dispose the product into drains.

