

Carbon Mesh 2000

High Strength Bi-directional Carbon Fiber Mesh, Developed for Structure Reinforcement and Strengthening Application

Product Description

Carbon Mesh 2000 is a special product developed especially for reinforcing brick and stone walls, strengthening and protecting the floors of historical regions and for strengthening the large dimension porcelain tiles. High alkali resistant and high performance, resistant to all kinds of chemical environments.

Areas of Application

- Strengthening of weak beams, historical beams and arches.
- Strengthening of brick, stone walls.
- Strengthening the large dimension porcelain tiles.
- Strengthening the floors of historical sites.

*Improve Structural Condition:

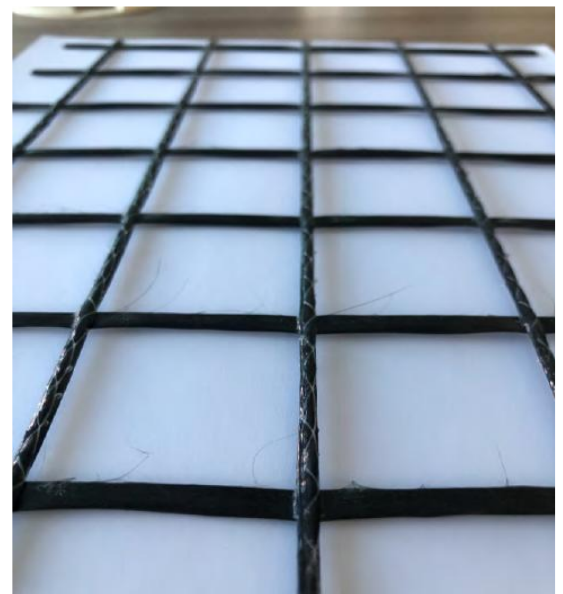
- Reduce deformations.
- Reduce stresses in existing structural elements.
- Limit or arrest crack propagation.

Advantages

- High strength to weight ratio. Can add significant strength to a structure without adding significant dead load.
- The most obvious advantage of the repair method with Carbon Mesh 2000 is that although it adds very little thickness in the structure, it can obtain many times more than the strength to be obtained with classical methods.
- It is stronger than steel but much lighter.
- It minimizes the negative effects of intervention.
- It has no rusting and corrosion problems.

Application Instructions

- It allows intervention to adapt to the features of the structure without adversely affecting the original structure. It adapts to different materials thanks to its specially developed coating. It has high mechanical strength and modulus of elasticity. Resistant to chemical aggressive environment and especially to high alkaline environment



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- Minimizes the formation and spread of cracks. Allows reinforcement in areas that do not have a regular geometric shape.
- Fast and easy application.
- Wide and homogenous mechanical improvement.

Technical Data

Properties	
Width	1 M
Roll Length	100 M.L
Carbon Mesh Weight m ²	215 gr/m ²
Mesh Range (mm)	18x18
Density	1.80
Carbon fibre Modulus of Elasticity	240 Gpa
Carbon Fibre Unit Length Elongation at Break	%2.00
Tensile Strength	> 200 Kn/m

Packing

Carbon Mesh2000 is available in 1.0 m x 100 m roll.

Storage

Carbon Mesh2000 has unlimited shelf life in **Dry Storage Conditions.**