

PRODUCT DESCRIPTION

CFM™ is a bidirectional carbon-fiber mesh with high strength designed to be field installed with cementitious based mortar for structural and seismic reinforcement applications. CFM™ carbon-fiber mesh can be used in structural strengthening works of reinforced concrete and masonry structures, replacing and improving reliability and performance of traditional techniques based on the use of glass fiber and steel mesh and, more generally, of FRP systems with all types of fibers.



Carbon Fiber Mesh - CFM™

PRODUCT FEATURES

- Low weight per unit area of mesh
- Simple and flexible application (also overhead)
- Small application thickness
- Ease of handling.
- Easy to cut and re-shaped.
- It can be used with cementitious or lime based structural repair mortar on damp and wet substrates

PRODUCT USES

- Increasing the flexural and shear strength of reinforced concrete beams.
- Increasing the flexural strength of reinforced concrete slabs.
- Increasing the shear strength of reinforced concrete walls.
- Enhancement of the ductility and strength of masonry walls.

HOW TO USE

SURFACE PREPARATION

At the time of application of CFM™, the based substrate should be cleaned from all residual that reduces the substrate's adhesion such as oil, grease and rust.

APPLICATION:

- Apply repair mortar with smooth towel, thickness of about 3 mm and sink CFM™ inside.
- Apply a second layer of repair mortar about 3 mm so as to completely cover the mesh.

STORAGE

Keep the mesh in a dry place away from sources of heat.

FIRST AID

In case of skin contact, wash thoroughly with soap and water. For eye contact, flush immediately with plenty of water; contact physician immediately. For respiratory problems, remove to fresh air. Wash clothing before reuse.

DISCLAIMER OF LIABILITY

AFZIR, LLC warrants its products to be free from manufacturing defects. Buyer determines suitability of product for use and assumes all risks. Buyer's sole remedy shall be limited to replacement of product. Any claim for breach of this warranty must be brought within six months of the date of purchase.

AFZIR shall not be liable for any consequential or special damages of any kind, resulting from any claim or breach of warranty, breach of contract, negligence or any legal theory.

The Buyer, by accepting the products described herein, agrees to be responsible for thoroughly testing any application to determine its suitability before committing to production.

TECHNICAL DATA & PHYSICAL PROPERTIES

Name	Total Weight (gsm)	Mesh Size (per inch ²)	Tensile Strength longitudinal/transverse (KN/m)
CFM™60	65	1.5*1.5	27 / 27
CFM™100	100	3.54*4	49 / 44
CFM™130	130	2.95*2.95	59 / 59
CFM™200	200	2.36*2.36	74 / 74

HANDLING

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing/gloves/goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.