



Fibro Fills

**Fibres for Crack Control & Concrete
Fiber Mesh for Construction**

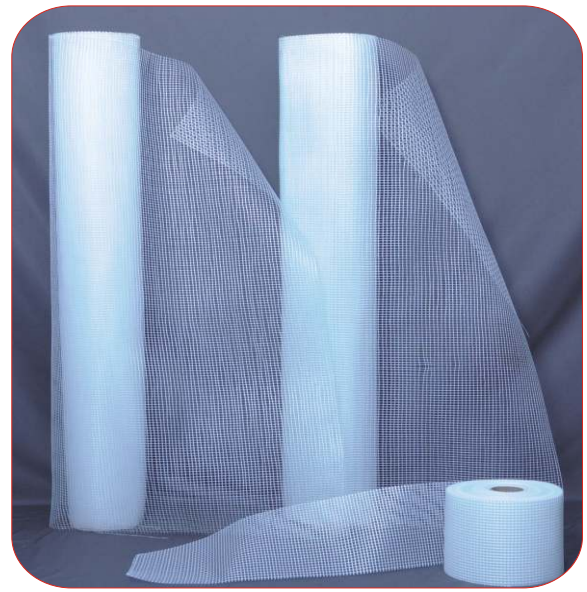
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What is Fibro Fills Mesh (FFM)

Fibre Glass Mesh is a Alkali resistant, reinforcing fabric manufactured from high tensile Glass Yarn, coated by Alkali Resistant Latex (acrylic acid copolymer compound).

Fibro Fills Mesh is used to control Plastic Shrinkage Crack of Mortar to achieve maximum effect derived from AR Glass Fibres.

The product is used at joining and wrapping of materials with two different co-efficient of thermal expansions.



Application Fibro Fills Mesh (FFM)

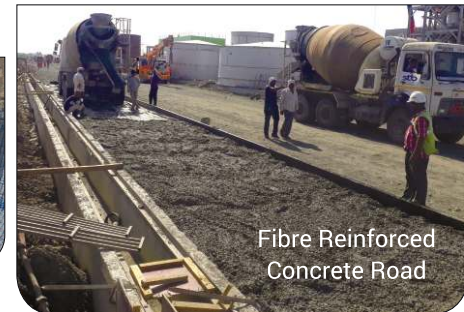
Joints of Masonary, RCC, Stones etc.

Seepage & dampness control

Construction members, Mosaic & Blends of Architectural works.

Plastering, Industrial Flooring & Repairs as a Tensile Reinforcement against aggressive conditions and impacts.

Gypsum punning over Block / Brick / RCC in wall plaster



Properties & Advantages

- **No Rusting** due to Alkali Resistant Coating over Glass Yarn. Fibre Mesh ensures long life of 30-40 years.
- **User Friendly** due to Low Weight, flexible material, it gives Flawless Wraps over surfaces.
- **No Nailing** reduced Labour Cost and Time.
- **Resistant** to Alkali, Moisture, Chemicals and Micro-organism.
- **Environment friendly**, ideal Engineering process adopted World over

QC Standard : Data Sheet Fibre

Parameters	Item
Areas Weight(g/m ²)	145±3 g/m ² - 80 gsm
Grid Mesh Size(mm)	5 mm × 5 mm
Width (Customized)	150 mm x 50 Mtr. 1 Mtr. x 50 Mtr.
Alkali-resistance retention rate(%)	average≥50% samples are soaked in 5% naohliquid at 80 °C for 6 hours
Yarn Type(tex)	Warp yarns: 134tex; weft roving:375tex
Breaking strength (n/50mm)	Warp≥1200N; weft≥1450N
Weight of the Raw Mesh(g/m ²)	124.7g/m ²
Glue Content(%)	Average glue content :14±0.5%
Moisture content	≤0.6%
Fixation (N)	≥3±0.5N
Roll length(m/roll)	50±0.3m/roll (average value 50m/roll)





Fibro Fills (ARG)

Fibro Fills (ARG) is Alkali resistant multi-filament **Glass Fibre** use to bind sand, aggregate components together, which limits Cracks propagation and offers uniformity and tensile reinforcements.

Thus ensures Longevity to Cement Structures.

Fibre (ARG) Applications

Plasters - External & Mortar Shrinkage for Crack Control

Concrete - IPS, Screeding, Coba in Architectural Cement application, Mosaic

Flooring and Roads for Smooth Concrete surface and Longevity of Construction

Constructions of Cement Panels

Screed Precast & Repair

Rendering in various cement mix



Why Fibres in Plasters & Concrete

Traditional heterogeneous Cement mixes are prone to Shrinkages Cracking and voids.

Fibro Fills ARG ensures homo-geneous mixing of innumerable filaments in Sand and Aggregates to protect surfaces from Dampness, Cracking and thus offers **Long Lasting, Smooth finishes** of Plaster & Concrete Constructions.

Dosage in Plaster

100 gm per bag of Cement in Mortar Application

Dosage in Concrete :

700 gm/m³, 100 gm/bag of Cement

* (As per design mix and recommendations of Engineer)

Higher dosage will yield higher Mechanical Strength



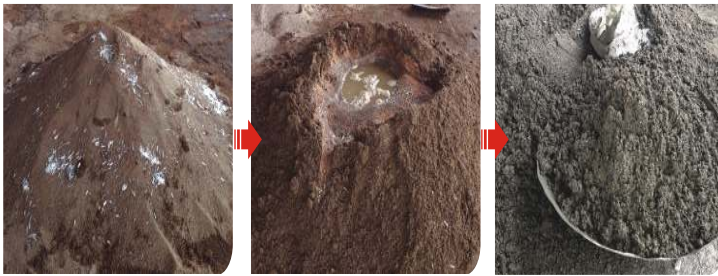
Fibre Reinforced Concrete (FRC)

Concrete containing fibrous material of High Tensile Strength. FRC gives homogeneity, resistance to crack propagation and micro multi-directional reinforcement (MMD-R). Fibres such as **Steel Fibres**, Glass Fibres, Synthetic and Natural Fibres are widely used.



Material Properties	Fibro Fills (AR-Glass Fibre)	Benefits in application
Alkali Resistivity	17 - 19% of material composition	No reactions with concentrated alkali in cement mix, enhance life.
Fibre Density	2.60 - 2.70	Uniform mixing in concrete of similar density (2.4)
Number of Fibres	Very high number of Filaments (125 million/m ³)	Provides best Reinforcing Fibre Matrix
Tensile Strength	1600+ Mpa (232 KSI)	Lower Dosage gives higher strength, Better Resistance to deformation under aggressive condition
Elastic Modulus λ	70 Gpa	Better flexural properties
Building Code Conformance	ICBO Uniform Building Code (1991)	Approved Standard Practice
Combustibility	Non Combustible (Softening Point 750 +°C)	Temperature Susceptible

Mixing Procedure



Repair & Rehabilitation



Ongoing Projects



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