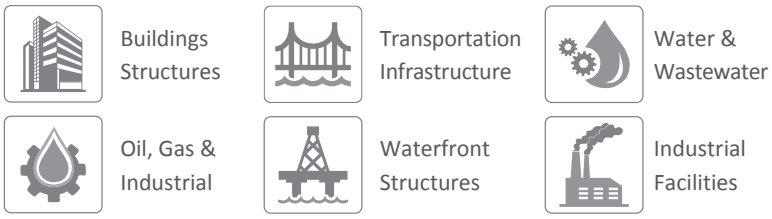
TechnoMesh™AR

Alkali-resistant Fiberglass Mesh

PRODUCT DESCRIPTION

TechnoMesh™AR Fiberglass AR mesh is a mesh made of E-type glass fibers, which has a high resistance to alkaline environment due to being impregnated with anti-alkali materials. Therefore, these types of fibers are not corroded or destroyed in cement matrices or other alkalis. Fiberglass AR mesh has excellent mechanical properties such as high aging resistance, high tensile strength, excellent flexibility, low water absorption, fire resistance, strong electrical insulation and also light weight. This product is offered in different dimensions and sizes in the market. So the user can buy as needed. By using this product on surfaces such as walls, ceilings, etc., cracks can be prevented. Therefore, the life of fiberglass mesh reinforced members is increased. This product can also be used to strengthen and seal pools and water tanks.



PHYSICAL PROPERTIES	
Specifications	Fiberglass mesh AR
Compounds	Type E glass fibers and anti-alkali material
Color	White

ADVANTAGES

- Easy to apply
- High resistance to alkalis
- Lightweight
- Variety in the distances of springs
- High tensile strength
- Flexible
- High economic efficiency
- Strong electrical insulation
- High durability

TYPICAL USES

TechnoMesh™AR product is used in many cases due to its excellent mechanical properties. Some of the applications of fiberglass mesh are as follows:

- Insulation of surfaces such as walls, ceilings, etc.
- Sealing tanks, pools, baths, etc.
- Used as a wall post
- Suitable replacement of metal mesh under the roof
- Stabilization of the building façade
- Stabilize and prevent cracking of walls
- FRCM composite system also uses AR fiberglass mesh.

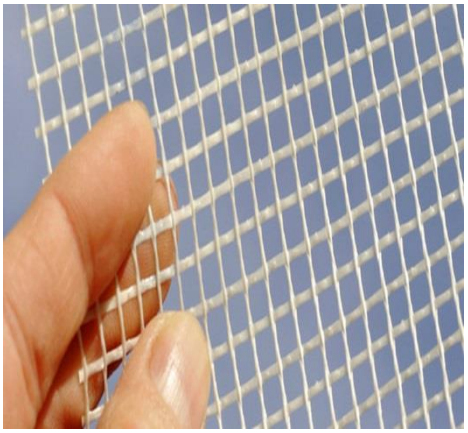
INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

Before installing the fiberglass mesh, the surface must be cleaned of any contaminants such as grease, dust, plaster, aggregate paint or loose parts. Also, the roughness of the surface must be repaired.

APPLICATION

- *Apply a coat of the desired base coat according to an appropriate product Data sheet's application procedures.*
- *Embed the TechnoMesh™AR fiberglass mesh into the wet base coat using a steel trowel, troweling from the center of the mesh to the edges. Avoid wrinkles in the mesh.*
- *Ensure that no fiberglass mesh is visible. Add base coat where needed.*



TECHNICAL DATA (DRY FIBER)						
	Unit	TechnoMesh™AR 75	TechnoMesh™AR 110	TechnoMesh™AR 125	TechnoMesh™AR 145	TechnoMesh™AR 200
Total weight	gsm	75	110	125	145	200
Mesh size	mm*mm	4*4	5*5	10*10	5*5	5*5
Roll Width	cm	10-200	10-200	10-200	10-200	10-200
Roll Length	m	50-100	50-100	50-100	50-100	50-100

Note: TechnoMesh™AR is available in a variety of total weight and mesh size by customer order.

LIMITATIONS

- Adding Alkali-Silica reactivity- inhibiting admixture to the concrete is required before TechnoMesh™AR application.
- The purchaser should perform any tests deemed necessary to establish conformance to their requirements before purchase order. The purchaser would be responsible for any conflict between his / her requirements and the product specifications.

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.

Storage

Store TechnoMesh™AR fiberglass mesh in a dry area with no exposure to moisture.

FAIRST AID

Wash fibers off skin with water and soap. If fibers are embedded in the skin, remove with tweezers. Discard clothing that may contain embedded fibers. Seek medical advice if exposure results in adverse effects.

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