

TechnoMesh™ EG

E-Fiber Glass Mesh

PRODUCT DESCRIPTION

TechnoMesh™ EG is a woven fabric made from E-glass (Electrical grade glass) fibers. This type of glass is known for its excellent electrical insulating properties, lightweight, durable, resistant to corrosion, high strength, and resistance to moisture and chemicals. It is commonly used in construction and other industries for reinforcing and strengthening materials such as concrete, plaster, FRCC systems, WallMesh, ETICS façade. E- fiber glass mesh is widely used to prevent the walls from cracking and reinforce walls stress resistance and impact resistance.



Buildings
Structures



Transportation
Infrastructure



Water &
Wastewater



Oil, Gas &
Industrial



Waterfront
Structures



Industrial
Facilities

TECHNICAL DATA

	Unit	TechnoMesh™ EG
Mesh Size	mm	3x3, 4x4, 5x5, 8x8, 10x10
Weight	(g/m ²)	110, 125, 145, 200
Roll Length	m	50, 100, 150, 200
Knitting Type	-	Plain woven
Yarn Type	-	E-glass
Coating	-	Alkali-resistant coating
Temperature Resistance	°C	70-550
Moisture Absorption	%	< 0.1
Fiber Density	g/cm ³	2.6

ADVANTAGES

- Good resistance to abrasion and vibrations
- Strong electrical insulation
- Resistant to the main chemical agents
- High tensile strength
- Thermal Stability
- Lightweight
- Flexible
- High durability
- Non-corrosion

TYPICAL USES

- FRCC composite system and wallmesh
- Reinforcing masonry walls made of brick, blocks or stone
- Reinforcing infill masonry walls
- connecting masonry walls to other walls or to an RC structure
- Increasing the resistance to out-of-plane failure of masonry walls subject to horizontal earthquake action
- Repair of cracked masonry walls
- Insulation panels
- Suitable replacement of metal mesh

PACKAGING

The fiberglass mesh is produced with mesh sizes of 3x3, 4x4, 5x5, 8x8, and 10x10 mm, and correspondingly in weights of 110, 125, 145, and 200 grams. It is also available in various sizes and weights according to customer needs.

STORAGE

The products should be stored away from heat and moisture, and in their original packaging. The best conditions are: temperatures between 15 and 35 °C; humidity between 35 and 65 %.

INSTALLATION PROCEDURE

PREPARATION OF SUBSTRATE

Ensure the surface is clean, dry, and free from dust, grease, or loose particles. If necessary, apply a primer to enhance adhesion.



APPLICATION

TechnoMesh™ EG can be used in technologies such as manual layering, pultrusion, compression molding, hand lay-up processes, filament winding in order to produce desired parts and products.

Cut the E-fiberglass mesh to the required size using a utility knife or scissors. Then apply a thin layer of plaster or mortar mix to the prepared surface using a trowel. While the plaster/mortar is still wet, lay the E-fiberglass mesh onto it. Press the mesh into the plaster/mortar, ensuring it is fully embedded and smooth out any wrinkles or bubbles. Once the mesh is in place, apply another layer of plaster/mortar over it to fully cover the mesh. Smooth out the surface with a trowel. Allow the layers to dry and set. After drying, the surface can be sanded and finished as desired.

LIMITATIONS

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until completely dry.
- Do not use when air and surface temperatures are below +5°C and above +35°C.
- Avoid heavy traffic for 24 hours.

CAUTION

The use of safety glasses and chemically resistant gloves is recommended. Use appropriate clothing to minimize skin contact. The use of NIOSH-approved respirator is required to protect respiratory tract when ventilation is not adequate to limit exposure below the PEL. Refer to Safety Data Sheets (SDS) for detailed information.

FAIRST AID

Skin

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.

Eyes

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

Inhalation

If there is inhalation exposure to the fibers of this product, remove source of exposure and move victim to fresh air. If victim is not breathing, give artificial respiration. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

Ingestion

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

DISCLAIMER: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Technopol products makes no claim that these tests or any other tests, accurately represent all environments.