

FIBRA DI VETRO

Fiberglass cloth for VETRORESINA POLIESTERE

Technical specifications

FIBRA DI VETRO is a structural reinforcing fiber; it represents the mechanical structure of a composite and can be compared to steel rebar in reinforced concrete. FIBERGLASS is available as a powder or liquid binder and is designed to be used in combination with orthophthalic, isophthalic, vinylester, epoxy, and self-extinguishing resins. Glass, the first reinforcement developed for polyester resin, is still the most widely used in reinforced plastics.

FIBRA DI VETRO is produced by melting special types of silica sands which are first spun into filaments and then drawn to achieve the desired filament diameter. Between the extrusion die and the winder, a surface treatment is applied by spraying; this treatment serves several purposes: coating each filament with a lubricating film, bonding them together to form a composite strand, and improving the chemical adhesion with the resin, thus enhancing impregnation speed.

FIBRA DI VETRO is obtained using composite strands that are cut and evenly deposited on a surface, then bonded together with a sizing agent to form a felt with good consistency. The sizing is available in two types: emulsion and powder. The emulsion type offers easier handling and cutting; the powder type is used for producing transparent parts, as the first layer over Gelcoat, or wherever higher chemical resistance is required.

These products are ideal for the production and repair of boats, chemical storage tanks, vehicle components, and sports equipment. The distribution of fiberglass filaments and the weave of the mats is highly controlled to ensure maximum laminate uniformity, easy air release, good drapeability, fast resin impregnation and absorption, good surface compactness, and high filament integrity.

Instructions for use

After applying the first coat of resin, lay the **FIBRA DI VETRO** onto the surface and thoroughly impregnate it with more resin using a brush while applying light pressure. Always and only use **FIBRA DI VETRO** as the reinforcing fabric to prevent **VETRORESINA POLIESTERE (ITEM 3557)** from failing to cure. Repeat the operation two or more times for greater thickness. Fiberglass fibers and mats should be stored in a clean, dry place. Ideal conditions are temperatures between 5°C and 35°C and humidity between 35% and 65%. For cutting and shaping operations, it is good practice to unroll the reinforcement on clean surfaces.

Application

Apply **FIBRA DI VETRO** as supplied.

Consumption

The consumption of **FIBRA DI VETRO** varies depending on the method of use and the required application.

Warnings

Use the product following good working practices, avoiding release into the environment.

Wear appropriate protective equipment (gloves, safety goggles, etc.).

Store the product indoors in its original sealed packaging, away from weather, frost, and heat sources.

Do not release into the environment: follow local disposal regulations.

Always perform a preliminary test before use.

Packaging

Pre-cut kits 1m² (12 pcs × 1)

CHEMICAL AND PHYSICAL PROPERTIES

Physical state	Roll
Color	White

Technical Data Sheet code: 3558-Revision 01 of 01/10/2025

Via G. Galilei 39 • 35035 Mestrino (PD) • tel +39 049 904 8611 • fax +39 049 900 1695
www.multichimica.it • mailbox@multichimica.it



The information is, to the best of our knowledge, accurate and correct, but any indication and/or suggestion provided is given without guarantee, as the conditions of use are beyond our direct control. In case of uncertainty, preliminary testing is always recommended.