



**OLY TEX GLASS 1140 QUADRI-AX HR** is a quadriaxial balanced glass fiber fabric with a weight of 1140 g/m<sup>2</sup> with high mechanical resistance specific for structural consolidation interventions of masonry, wood and in some cases in reinforced concrete.

The FRP consolidation systems obtained by laying a fabric such as **OLY TEX GLASS 900 UNI-AX HR** with suitable epoxy resins such as **OLY RESIN 10 (A + B)** and **OLY RESIN 20 (A + B)** guarantee excellent resistance characteristics traction, allow you to easily remedy precarious situations affecting both vertical structures and horizontals, allowing, unlike interventions made with traditional materials, reduced invasiveness, as they allow to keep the dimensions of the previous elements and the weight almost unchanged of the same and therefore of the entire structure. Composite materials have undoubted advantages: very high tensile strength, low specific weight, high resistance to environmental stresses. They also have the advantage of being applied quickly and minimally invasive. The reinforcement properly placed can be subsequently plastered with traditional plasters on the market.

### *Features*

| Property                    | Nominal value         |
|-----------------------------|-----------------------|
| Fiber density               | 2,6 g/cm <sup>3</sup> |
| Total weight                | 1140 g/m <sup>2</sup> |
| Strain at break             | ≥ 3,5%                |
| Equivalent thickness        | 0,1096 mm             |
| Elastic module              | 73 GPa                |
| Mechanical tensile strength | 2.600 MPa             |

### *Preliminary warnings*

The installation of **OLY TEX GLASS 1140 QUADRI-AX HR** fabrics must be carried out only in the presence of perfectly clean and dry surfaces and with good mechanical characteristics. The installation in different conditions can seriously compromise the functionality of the reinforcement.

## *Storage conditions, use and safety precautions*

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Store in a covered and dry place.

During the preparation and installation of the resins necessary for the application of the fabric, operators must wear waterproof gloves, a mask and goggles;

In case of contact with the eyes, rinse thoroughly with water;

In case of inhalation, breathe clean air;

In case of skin contact, simply rinse with water.

Due to their high adhesion, epoxy resins can damage work tools.

Therefore, it is recommended to wash the tools before hardening the products with solvents, and to use protective suits, in order to preserve the work clothes.

For more information, refer to the technical data sheets of the *OLY RESIN 10* and *OLY RESIN 20* epoxy resins.

## *Pack*

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50ml rolls with standard 30cm width.

## *Installation*

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1. Preparation and cleaning of the substrate in order to obtain perfectly clean and dry surfaces with sufficient mechanical characteristics.
2. In the case of uneven surfaces, it must be regularized with suitable hydraulic mortars.
3. Apply *OLY RESIN PRIMER (A + B)* by brush.
4. In the case of surfaces with irregularities of less than 2 mm, apply two-component epoxy resin *OLY RESIN 10 (A + B)*.
5. Application by brush of a first layer of two-component epoxy resin *OLY RESIN 20 (A + B)* following the instructions in the relative technical data sheet.
6. Installation of the *OLY TEX GLASS 1140 QUADRI-AX HR* fabric with fibers oriented as per project and subsequent treatment with a special bubble-break roller.
7. Apply “fresh” a second layer of *OLY RESIN 20 (A + B)* and subsequent treatment with a suitable bubble-breaking roller.
8. If the subsequent laying of civil plasters is necessary, it is advisable to first carry out a manual dusting with quartz sand on the still “fresh” system to increase the useful surface of adhesion.



## Warnings

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The technical and mechanical characteristics and the methods of installation indicated in this sheet are based on an extensive analysis of the state of the art of the research and of the applications in question, but cannot imply any guarantee on our part on the final result of the product. applied in particular with regard to the installation of systems that must be carried out by specialized personnel.

The buyer is responsible for verifying the suitability of the products described in this document for the intended use and purposes. Olympus srl assumes no responsibility for the improper use of the material. The customer is required to verify that this sheet and the data reported therein are valid for the batch of product of his interest and are not outdated as replaced by subsequent editions and / or new product formulations or certifications. The customer is invited to contact our Technical Department in advance for further clarifications. This edition cancels and replaces any previous one.

### Product for professional use

Rev. 001-20

*For information, technical assistance and further systems for structural reinforcement, visit the website:*

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