



OLY ROPE BASALT is a structural element with a circular section made up of monodirectional basalt filaments that are put together to form a "strand"; it is widely used in the consolidation of building structures, both new and historical-monumental, for the construction of reinforced nails, chains, intrados reinforcement of vaults, reinforcement of masonry or anchors on masonry. **OLY ROPE BASALT** compared to traditional steel chains, bars or strands, is not affected by corrosion phenomena and allows you to make holes with a significantly smaller diameter than traditional interventions, reducing damage to the original structures.

Features

Diameter (mm)	8	10	12
N° of wires (-)	21	27	32
Weight (g/m ²)	6.300	6.480	6.400
Connector weight 10 ml (Kg)	0,504	0,648	0,768
Specific weight of the yarn (g/cm ³)	2,67	2,67	2,67
Mechanical tensile strength of the yarn (MPa)	≥2.624	≥2.624	≥2.624
Elastic modulus of the yarn (GPa)	≥87	≥87	≥87
Elongation (%)	3,02	3,02	3,02
Heavy duty connector section (mm ²)	18,88	24,27	28,76

Preliminary warnings

The installation of the **OLY ROPE BASALT** systems 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.

Packs

The connectors are available in 10ml rolls, with 8mm, 10mm and 12mm diameter.

Installation

1. Make the hole for housing the "strands" *OLY ROPE BASALT* using appropriate mechanical equipment.
2. Cut the *OLY ROPE BASALT* "strands" to the length required by the project, taking care to consider the length necessary for the appropriate connection systems, if required.
3. Apply the primer *OLY RESIN PRIMER (A + B)* on the surfaces of the holes subject to the reinforcement after having thoroughly cleaned and dried them following the instructions in the relevant data sheet.
4. Prepare the resin *OLY RESIN 20 (A + B)* following the instructions in the relative technical data sheet and manually impregnate the strand making sure to use protective gloves and all other appropriate safety devices.
5. Insert the resin *OLY RESIN 20 (A + B)* into the hole following the instructions in the relevant data sheet.
6. Insert the strands inside the holes, paying attention if required by the project, to leave the ends free for the appropriate connection systems.

Storage and safety conditions

Store in a covered and dry place.

During the preparation and installation of the resins necessary for the application of the connectors, 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 advisable 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 epoxy resins *OLY RESIN-PRIMER*, *OLY RESIN 20*.

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.

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Product for professional use

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

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