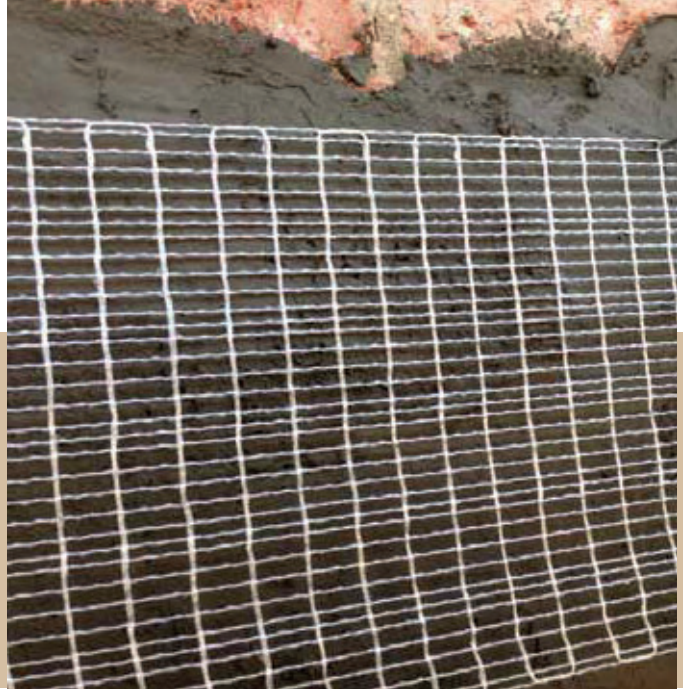
S-MESH 600/900

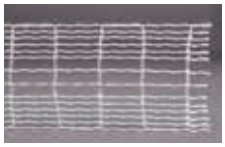


High resistance galvanized steel fiber unidirectional fabric

S-MESH is a high strength micro-strand steel fiber fabric, suitable for the restoration of concrete and masonry structures (brick, stone, tuff, etc.).
The galvanizing treatment gives durability to the system. Applied appropriately to the support, it gives the plaster high resistance to the stresses to which the underlying structure is subject.

- Ecological
- Wet supports
- Compatible with masonry
- Resistant to freeze/thaw cycles
- Vapor permeable
- Easy to install

THE SYSTEM IS MADE UP OF:



S-MESH 600/900

Steel fiber fabric in weights of 600 g/m² e 900 g/m² available in the following heights:
- 10 cm (roll length equal to 30 m)
- 30 cm (roll length equal to 30 m).

MX-R4 Repair

Mortar for restoration of high-strength concrete for structural plasters.

MX-RW High Performances

Plaster mortar compatible with high strength masonry for structural plasters.

MX-CP Lime

Plaster mortar compatible with lime-based masonry for structural plasters.

PROPERTIES OF THE SYSTEM

- High strength reinforcement;
- Steel in micro-strands;
- With suitable mortar it is ideal for reinforcing both concrete and masonry.

TECHNICAL CHARACTERISTICS

PROPERTY OF THE FABRIC	S-MESH 600	S-MESH 900
MICRO-STRAND*		
Description	No. 3 strands in a wrap (3x0,54) of high-carbon steel**	
Diameter	0,94 mm	
Ultimate tensile strength	> 2100 MPa	
Yield strength	> 1700 MPa	
Elongation at break	> 2,2%	
Elastic module	180 GPa	
Weight of zinc***	30 g/m^2	
Linear density	5,35 g/m	
Type of wrap	Acrylic	
Mesh		
Number of strands in the fabric	13 or 37 (h. 10 cm or h 30 cm)	17 or 51 (h. 10 cm or h 30 cm)
Total steel section	8,93 or 25,42 mm^2 (h 10 cm or h 30 cm)	11,68 or 35,03 mm^2 (h 10 cm or h 30 cm)
Steel weight	650 g/m^2	910 g/m^2
Fabric resistance	175 N/mm	245 N/mm
Thickness	1,75 mm	1,75 mm
SPECIFICATIONS FOR THE SUPPLY		
Package	30 m rolls, h 10 cm and 30 cm	
Consumption	15 cm overlap at junctions	

PROPERTIES OF FINISHING MORTAR	MX-R4 Repair	MX-RW High Performances	MX-CP Lime
Compressive strength 3/7/28 days	> 30; > 37; > 54 MPa	≥ 26; ≥34; ≥ 49,5 MPa	≥ 3; ≥ 6; ≥ 15 MPa
Bending resistance 3/7/28 days	> 3,5; > 4,5; > 7 MPa	≥ 3,1; ≥ 3,8; ≥ 5,5 MPa	≥ 0,6; ≥ 1,2; ≥2 MPa
Elastic modulus at 28 days	≥ 24 GPa	≥ 15 GPa	≥ 8,5 GPa
SPECIFICATIONS FOR THE SUPPLY			
Package	25 kg bags on 1,000 kg pallets		
Consumption of dry premixed mortar	18 Kg/m^2/cm	18 Kg/m^2/cm	15 Kg/m^2/cm

* Iso 16120-2: non-alloy steel wire rod for conversion to wire — part 2: specific requirements for general purpose wire rod and en 10244-2: steel wire and wire products. Non-ferrous metallic coatings on steel wire. - Part 2: zinc or zinc alloy coatings.
** According to is0 16120-2: from c78d to c86d or equivalent.
*** According to en 10244-2

FIELDS OF APPLICATION

- Structural plasters with galvanized steel reinforcement;
- Consolidation of listed and historical constructions;
- Structural plasters of masonry structures and concrete elements;
- Reinforced plaster on vaults;
- Protection of non-structural components;
- Post-earthquake restoration and reconstruction of masonry elements.