

# REPAIR AND REINFORCEMENT SYSTEMS

## GENERAL CATALOGUE





Shaping ideas,  
delivering safety.





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# Shaping ideas, delivering safety.

Originally established as an innovative company specialised in the design and production of composite materials for construction, infrastructural and industrial sectors, FIBRE NET combines specialised structural engineering, large scale manufacturing and product innovation.



Today we are recognized as a leading, specialized Group capable to offer complete and durable solutions for repair, reinforcement, and protection in the building and infrastructure sectors.

# FIBRE NET

composite engineering

PRODUCTION

HEAD OFFICE  
ENGINEERING  
PRODUCTION



ENGINEERING

PRODUCTION

# RESEARCH

Our core strength: research and innovation. FIBRE NET has always been focused on the development of innovative solutions for structural enhancement.



FIBRE NET GROUP conducts research and experimental activities in collaboration with universities, research institutes, and independent organizations: these synergies result in validation and certification of products and innovative solutions, as well as software and tools supporting designers and construction management.

# ENGINEERING

A team of engineers leads several highly qualified multidisciplinary working groups in design and consultancy.



The added value for the client, the specifier, and the contractor lies precisely in the integration of engineering expertise and management capabilities, enabling effective intervention on large-scale civil and infrastructure projects. Our services? Feasibility analysis, structural design, operational optimization of the intervention, quality control, on-site testing, and monitoring of schedules and costs.

When conceiving a new product or system, we do not restrict ourselves to its typical application but continue to test, analyze, and design in order to understand its full potential.



The FIBRE NET Research Center consists of laboratories and areas dedicated to R&D project; state-of-the-art technologies and equipment are made available to partners to perform tests, including on-site, for problem diagnosis and for the mechanical and chemical characterization of materials and intervention cycles.

A team of specialized technicians fully dedicated to large-scale projects.



From direct training of site personnel for the correct preparation and installation of all FIBRE NET systems, to assistance during work phases, material testing, and up to the final on-site operations.

FIBRE NET produces within its own manufacturing plants, systems for the repair and reinforcement of infrastructure in compliance with the requirements established by the principal road and rail authorities.



For 25 years, FIBRE NET has served as the "productive core" within the Group's structure through the development, engineering, and production of systems and composite materials for structural reinforcement and seismic enhancement, as well as mortars and technical products for the repair and maintenance of civil engineering works. Aspects such as safety and adherence to the structural characteristics of constructions form the foundation of the development of every product and system.

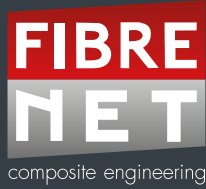
The Group establishes itself as a reliable partner for the entire construction supply chain, offering innovative solutions developed in compliance with environmental sustainability, and distinguishes itself through excellent financial and managerial performance.



FIBRE NET implements production processes with low environmental impact and quality controls on products and processes: ISO 9001 and ISO 14001 certifications attest to this commitment through controlled management of all production stages. FIBRE NET has completed the environmental impact assessment of its main products, in accordance with ISO 14025, for the development of type III environmental labels and EPD documentation.



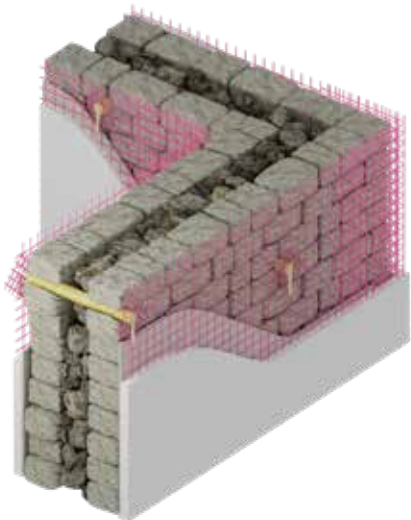




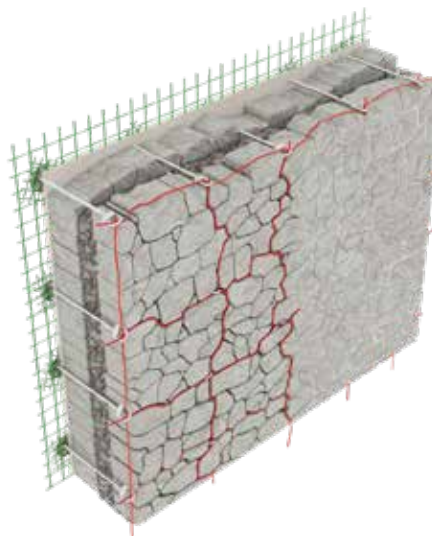
# REINFORCEMENT SYSTEMS

# REINFORCEMENT SYSTEMS

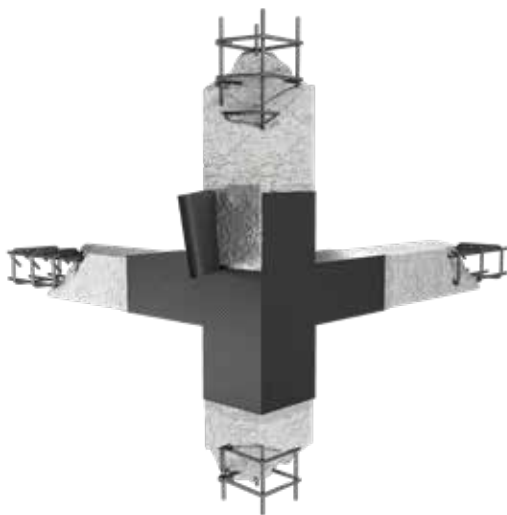
## FIELDS OF APPLICATION



**01** INTERVENTIONS ON MASONRY



**02** INTERVENTIONS ON EXPOSED MASONRY



**03** INTERVENTIONS ON CONCRETE AND MASONRY



**04** INTERVENTIONS ON MASONRY INFRASTRUCTURES



05

## INTERVENTIONS ON CONCRETE INFRASTRUCTURES

# CRM

## SYSTEMS

*Composite Reinforced Mortar*

**RI-STRUTTURA** | **H-PLANET**

CRM systems composed of meshes, connectors, and prefabricated accessories made of composite materials – AR glass fiber (RI-STRUTTURA) or carbon fiber (H-PLANET) combined with lime-based, cementitious, or high-strength mortars. This technology enables extensive, durable, and high-performance interventions on masonry and concrete.

# FRP

## SYSTEM

*Fiber Reinforced Polymer*

**BETONTEX**

The FRP BETONTEX system includes fabrics, meshes, bows, laminates, and carbon fiber bars with epoxy matrices, designed for the reinforcement of masonry and concrete.

Lightweight and highly durable composite materials, FRPs are effectively applied in the static and seismic strengthening of elements in civil and infrastructural sectors.

# FRCM

## SYSTEMS

*Fiber-Reinforced Cementitious Matrix*

**C-MATRIX**

FRCM systems combine basalt–steel fiber, carbon, or glass meshes with inorganic lime-based or cementitious matrices. These allow for thin, compatible, and highly adherent applications on masonry and concrete, enhancing shear and flexural strength without adding mass or stiffness.

# REINFORCED REPOINTING

## SYSTEM

**RETICOLA**

The RETICOLA system employ reinforced repointing with steel strands and stainless steel connectors to consolidate stone and brick masonry with exposed faces.

It's the ideal solution for the restoration of historic and residential buildings and is also applicable to masonry bridges and tunnels, ensuring performance and durability.

# CRM SYSTEMS

**RI-STRUTTURA**

**H-PLANET**



**RI-STRUTTURA**, **RI-STRUTTURA-FORCE**, and **H-PLANET** are three CRM (Composite Reinforced Mortar) structural reinforcement systems that use meshes, corners and connectors in FRP (Fiber Reinforced Polymer) combined with structural mortars based on NHL lime or cement. The three systems differ in the type of fibers employed in the production of the FRP components and their corresponding mechanical properties.

FIELDS OF APPLICATION

**01** INTERVENTIONS ON MASONRY

**04** INTERVENTIONS ON MASONRY INFRASTRUCTURES

## MESHES, CORNERS AND PATCHES PREFORMED IN GLASS FIBER

### RI-STRUTTURA FBMESH

Pack. in rolls of 40, 60, and 80 m<sup>2</sup>

PREFORMED MONOLITHIC MESH IN GFRP (GLASS FIBER REINFORCED POLYMER), CONSISTING OF ALKALI-RESISTANT GLASS FIBERS IMPREGNATED WITH AN EPOXY VINYLESTER THERMOSETTING RESIN.

Product	Mesh size	Weight	Tensile strength of the mesh (minimum value between the two directions)		Elastic modulus
			Average	Characteristic	
<b>FBMESH33X33T96AR</b>	33 x 33 mm	approx. 820 g/m <sup>2</sup>	148.70 kN/m	127.00 kN/m	25.0 GPa
<b>FBMESH66X66T96AR</b>	66 x 66 mm	approx. 420 g/m <sup>2</sup>	74.3 kN/m	63.5 kN/m	25.0 GPa
<b>FBMESH66X66T192AR</b>	66 x 66 mm	approx. 850 g/m <sup>2</sup>	105.33 kN/m	83.32 kN/m	25.5 GPa
<b>FBMESH99X99T96AR</b>	99 x 99 mm	approx. 280 g/m <sup>2</sup>	49.60 kN/m	42.30 kN/m	25.0 GPa
<b>FBMESH99X99T192AR</b>	99 x 99 mm	approx. 550 g/m <sup>2</sup>	70.20 kN/m	55.50 kN/m	25.5 GPa
<b>FBMESH132X132T192AR</b>	132 x 132 mm	approx. 450 g/m <sup>2</sup>	49.1 kN/m	38.9 kN/m	26.0 GPa

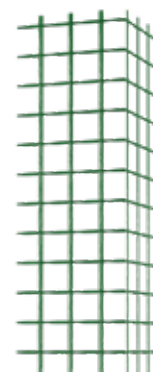


**RI-STRUTTURA****FBANG**

Standard pallet: max 150 units of 2.00 x 0.33 + 0.33 m

PREFORMED CORNER IN GFRP (GLASS FIBER REINFORCED POLYMER) COMPOSED OF GLASS FIBERS IMPREGNATED WITH AN EPOXY-VINYLESTER THERMOSETTING RESIN.

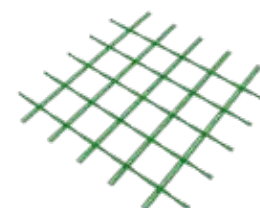
Product	Mesh size	Weight	Elastic modulus
<b>FBANG33X33T96AR</b>	33 x 33 mm	approx. 1.1 kg/unit	25.0 GPa
<b>FBANG66X66T96AR</b>	66 x 66 mm	approx. 0.6 kg/unit	25.0 GPa
<b>FBANG99X99T96AR</b>	99 x 99 mm	approx. 0.4 kg/unit	25.0 GPa
<b>FBANG66X66T192AR</b>	66 x 66 mm	approx. 1.2 kg/unit	25.5 GPa
<b>FBANG99X99T192AR</b>	99 x 99 mm	approx. 0.8 kg/unit	25.5 GPa

**RI-STRUTTURA****FBFAZ**

Pack. of 25, 100, 500 pieces.

PREFORMED MESH PATCHES IN GFRP (GLASS FIBER REINFORCED POLYMER), CONSISTING OF ALKALI-RESISTANT GLASS FIBERS IMPREGNATED WITH A THERMOSETTING EPOXY VINYLESTER RESIN.

Product	Mesh size	Weight	Nominal diameter of the strands
<b>FBFAZ33X33T96AR</b>	33 x 33 mm	approx. 20 g/unit	approx. 3.5 mm
<b>FBFAZ66X66T96AR</b>	66 x 66 mm	approx. 10 g/unit	

**MESHES, CORNERS AND PATCHES IN HIGH-PERFORMANCE GLASS FIBER****RI-STRUTTURA FORCE****FBMESH FORCE**Pack. in rolls of 40, 60, and 80 m<sup>2</sup>

HIGH-PERFORMANCE MESH, MONOLITHIC AND PREFORMED IN GFRP (GLASS FIBER REINFORCED POLYMER), COMPOSED OF ALKALI-RESISTANT GLASS FIBERS IMPREGNATED WITH EPOXY-VINYLESTER THERMOSETTING RESIN.

Product	Mesh size	Weight	Tensile strength of the mesh (minimum value between the two directions)		Elastic modulus
			Average	Characteristic	
<b>FBMESH33X33T96AR FORCE</b>	33 x 33 mm	approx. 820 g/m <sup>2</sup>	212.40 kN/m	196.20 kN/m	44.6 GPa
<b>FBMESH66X66T96AR FORCE</b>	66 x 66 mm	approx. 420 g/m <sup>2</sup>	106.20 kN/m	98.10 kN/m	44.6 GPa
<b>FBMESH66X66T192AR FORCE</b>	66 x 66 mm	approx. 850 g/m <sup>2</sup>	181.50 kN/m	143.25 kN/m	44.6 GPa
<b>FBMESH99X99T96AR FORCE</b>	99 x 99 mm	approx. 280 g/m <sup>2</sup>	70.80 kN/m	65.40 kN/m	33.4 GPa
<b>FBMESH99X99T192AR FORCE</b>	99 x 99 mm	approx. 550 g/m <sup>2</sup>	121.00 kN/m	95.50 kN/m	33.4 GPa

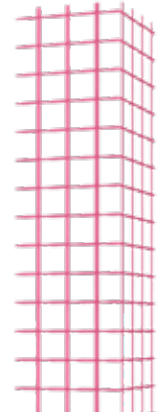


**RI-STUTTURA FORCE**  
**FBANG FORCE**

Standard pallet: max 150 units of 2.00 x 0.33 + 0.33 m

HIGH-PERFORMANCE PREFORMED CORNER IN GFRP (GLASS FIBER REINFORCED POLYMER), COMPOSED OF GLASS FIBERS IMPREGNATED WITH EPOXY-VINYLESTER THERMOSETTING RESIN.

Product	Mesh size	Weight	Elastic modulus
<b>FBANG33X33T96AR FORCE</b>	33 x 33 mm	approx. 1.1 kg/unit	44.6 GPa
<b>FBANG66X66T96AR FORCE</b>	66 x 66 mm	approx. 0.6 kg/unit	44.6 GPa
<b>FBANG99X99T96AR FORCE</b>	99 x 99 mm	approx. 0.4 kg/unit	44.6 GPa
<b>FBANG66X66T192AR FORCE</b>	66 x 66 mm	approx. 1.2 kg/unit	33.4 GPa
<b>FBANG99X99T192AR FORCE</b>	99 x 99 mm	approx. 0.8 kg/unit	33.4 GPa

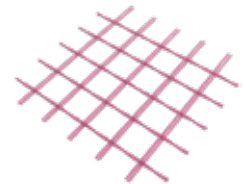


**RI-STUTTURA FORCE**  
**FBFAZ FORCE**

Pack. of 25, 100, 500 pieces.

HIGH-PERFORMANCE PREFORMED MESH PATCH IN GFRP (GLASS FIBER REINFORCED POLYMER), CONSISTING OF ALKALI-RESISTANT GLASS FIBERS IMPREGNATED WITH AN EPOXY VINYLESTER THERMOSETTING RESIN.

Product	Mesh size	Weight	Nominal diameter of the strands
<b>FBFAZ33X33T96AR FORCE</b>	33 x 33 mm	approx. 20 g/unit	approx. 3.5 mm
<b>FBFAZ66X66T96AR FORCE</b>	66 x 66 mm	approx. 10 g/unit	



**L-SHAPED PREFORMED CONNECTORS**

**RI-STUTTURA**  
**FBCON**

L-SHAPED PREFORMED GFRP (GLASS FIBER REINFORCED POLYMER) CONNECTOR FOR THE CONNECTION OF THE PREFORMED MESH TO THE SUPPORT, MANUFACTURED WITH AR GLASS FIBER TENSIONED AND IMPREGNATED WITH VINYLESTER-EPOXY TYPE THERMOSETTING RESIN.

Short side dimension	Long side dimension	Elastic modulus	Tensile strength
100 mm	from 100 mm to 1000 mm	26.5 GPa	Average 455 MPa Characteristic 380 MPa



## RESIN FOR CONNECTORS ANCHORING

### FIXA VINYL 15

400 ml Cartridges - Pack./box: 12



VINYLESTER CHEMICAL ANCHOR WITH RAPID CURING FOR STRUCTURAL FASTENING OF BARS AND REINFORCEMENTS, ALSO UNDER SEISMIC RISK CONDITIONS.

Average consumption
Variable depending on the geometry of the anchorage (see technical datasheet)



## PREFORMED CARBON FIBER MESHES AND CORNERS

### H-PLANET FBMESH

Pack. in rolls of 40, 60, and 80 m<sup>2</sup>

HIGH-PERFORMANCE PREFORMED CFRP (CARBON FIBER REINFORCED POLYMER) MESH, CONSISTING OF ALKALI-RESISTANT CARBON FIBERS IMPREGNATED WITH A THERMOSETTING POLYESTER-BISPHENOLIC RESIN.

Product	Mesh size	Weight	Tensile strength of the mesh (minimum value between the two directions)		Elastic modulus
			Average	Characteristic	
<b>FBMESH66X66</b>	66 x 66 mm	approx. 494 g/m <sup>2</sup>	191.40 kN/m	148.95 kN/m	81.1 GPa
<b>FBMESH99X99</b>	99 x 99 mm	approx. 329 g/m <sup>2</sup>	127.60 kN/m	99.30 kN/m	81.1 GPa

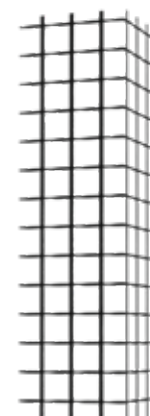


### H-PLANET FBANGC

Standard pallet: max 150 units of 2.00 x 0.33 + 0.33 m

PREFORMED CORNER MADE OF CFRP (CARBON FIBER REINFORCED POLYMER) CONSISTING OF CARBON FIBERS IMPREGNATED WITH THERMOSETTING POLYESTER-BISPHENOLIC RESIN.

Product	Mesh size	Weight	Elastic modulus
<b>FBANGC66X66</b>	66 x 66 mm	approx. 0.7 kg/unit	81.1 GPa
<b>FBANGC99X99</b>	99 x 99 mm	approx. 0.4 kg/unit	



## CONNECTORS, BOWS AND BARS FOR ALL SYSTEMS

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# FRCM

## SYSTEMS

### C-MATRIX



**C-MATRIX** is a complete range of low-thickness reinforcement systems of the FRCM (Fiber Reinforced Cementitious Matrix) type, developed to provide effective and compatible solutions for a wide range of design requirements including structural improvement and anti-overturning of walls.

Application is performed using the fresh-on-fresh technique, employing reinforcement meshes, either dry or impregnated, combined with inorganic matrices based on natural hydraulic lime or cementitious binders.

#### FIELDS OF APPLICATION

**01** INTERVENTIONS ON MASONRY

**04** INTERVENTIONS ON MASONRY INFRASTRUCTURES

## GLASS FIBER MESHES

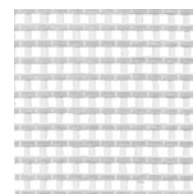
### C-MATRIX

## FB-VAR

Pack. in rolls

DRY AND IMPREGNATED BIDIRECTIONAL MESHES IN AR (ALKALI RESISTANT) GLASS FIBER.

Product	Mesh size	Fibers weight	Roll dimensions
<b>DRY MESHES</b>			
<b>FB-VAR220R12</b>	12 x 12 mm	200 g/m <sup>2</sup>	100 cm (H) x 50 - 100 m (L)
<b>FB-VAR320R12</b>	16 x 16 mm	300 g/m <sup>2</sup>	100 cm (H) x 50 - 100 m (L)
<b>IMPREGNATED MESHES</b>			
<b>FB-VAR220R12H</b>	12 x 12 mm	200 g/m <sup>2</sup>	100 - 150 - 200 cm (H) x 50 - 100 m (L)
<b>FB-VAR320R16H</b>	16 x 16 mm	300 g/m <sup>2</sup>	100 - 150 - 200 cm (H) x 50 - 100 m (L)
<b>FB-VAR620R24H</b>	24 x 24 mm	600 g/m <sup>2</sup>	100 cm (H) x 50 - 100 m (L)



## CARBON FIBE MESHES

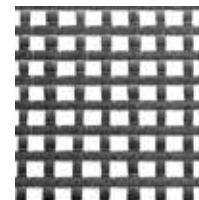
C-MATRIX

**FB-RC**

Pack. in rolls

BIDIRECTIONAL MESHES, DRY AND IMPREGNATED, IN CARBON FIBER.

Product	Mesh size	Weight	Roll dimensions
<b>DRY MESH</b>			
<b>FB-RC225-TH12-R16</b>	16 x 16 mm	206 g/m <sup>2</sup>	100 cm (H) x 50 - 100 m (L)
<b>IMPREGNATED MESH</b>			
<b>FB-RC225-TH12-R16H</b>	16 x 16 mm	206 g/m <sup>2</sup>	100 - 150 - 200 cm (H) x 50 - 100 m (L)



## BASALT AND STAINLESS STEEL MESHES

C-MATRIX

**FB-RBA**

Pack. in rolls

IMPREGNATED BIDIRECTIONAL MESHES, IN BASALT FIBER AND STAINLESS STEEL.

Product	Mesh size	Weight	Roll dimensions
<b>DRY MESHES</b>			
<b>FB-RBA200R17H</b>	17 x 17 mm	200 g/m <sup>2</sup>	100 - 200 cm (H) x 25 - 50 m (L)
<b>FB-RBA400R15H</b>	15 x 15 mm	400 g/m <sup>2</sup>	100 - 200 cm (H) x 25 - 50 m (L)



## CONNECTORS, BOWS AND BARS FOR ALL SYSTEMS

SEE PAGE 26/27/28

# FRP

## SYSTEM

### BETONTEX



**BETONTEX** is a range of fiber-reinforced polymer (FRP) composite materials comprising fabrics, meshes, laminates, preformed bars, and carbon fiber anchoring devices designed for impregnation and/or bonding in situ using thermosetting epoxy resins. BETONTEX systems provide structural intervention solutions characterized by high tensile strengths, minimal application thicknesses, and negligible mass increases. The preformed bars and anchoring devices carry CE marking.

#### FIELDS OF APPLICATION

- 03** INTERVENTIONS ON CONCRETE AND MASONRY
- 04** INTERVENTIONS ON MASONRY INFRASTRUCTURES
- 05** INTERVENTIONS ON CONCRETE INFRASTRUCTURES

### UNIDIRECTIONAL CARBON FIBER FABRICS

#### BETONTEX FB-GV

Pack. in rolls

UNIAXIAL, HEAT-BONDED CARBON FIBER FABRICS.

Product	Weight	Available widths (cm)	Roll dimensions
<b>MEDIUM TENACITY E = 250 GPa - FIBERS TENSILE STRENGTH: 4300 MPa</b>			
<b>FB-GV330U-MT</b>	300 g/m <sup>2</sup>	200 / 300 / 500	50 - 100 m (L)
<b>FB-GV420U-MT</b>	400 g/m <sup>2</sup>	200 / 300 / 500	50 - 100 m (L)
<b>FB-GV620U-MT</b>	600 g/m <sup>2</sup>	200 / 300 / 500	50 - 100 m (L)
<b>HIGH TENACITY E = 245 GPa - FIBERS TENSILE STRENGTH: 5100 MPa</b>			
<b>FB-GV330U-HT</b>	300 g/m <sup>2</sup>	5 - 10 - 20 - 30 - 50	50 - 100 m (L)
<b>FB-GV420U-HT</b>	400 g/m <sup>2</sup>	20 - 50	50 - 100 m (L)
<b>FB-GV620U-HT</b>	600 g/m <sup>2</sup>	20 - 50	50 - 100 m (L)
<b>HIGH MODULUS E = 390 GPa - FIBERS TENSILE STRENGTH: 4700 MPa</b>			
<b>FB-GV320U-HM</b>	300 g/m <sup>2</sup>	20 - 50	50 - 100 m (L)
<b>FB-GV420U-HM</b>	400 g/m <sup>2</sup>	20 - 50	50 - 100 m (L)
<b>FB-GV620U-HM</b>	600 g/m <sup>2</sup>	20 - 50	50 - 100 m (L)



## MULTI-AXIAL CARBON FIBER FABRIC

### BETONTEX FB-MULTIAX400

Pack. in rolls

HIGH-TENACITY CARBON FIBER MULTI-AXIAL WELDED FABRIC.

Product	Elastic modulus	Fibers tensile strength	Weight	Roll dimensions
<b>FB-MultiAx400</b>	230 GPa	4900 MPa	400 g/m <sup>2</sup>	127 cm (H) x 10 - 50 m (L)



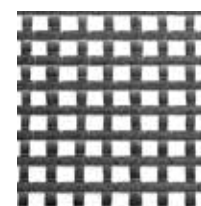
## CARBON FIBER MESHES

### BETONTEX FB-RC

Pack. in rolls

DRY BIDIRECTIONAL MESHES MADE OF HIGH-TOUGHNESS CARBON FIBER.

Product	Elastic modulus	Fibers tensile strength	Mesh size	Weight	Roll dimensions
<b>FB-RC225-TH12-R8</b>	210 GPa	5100 MPa	8 x 8 mm	200 g/m <sup>2</sup>	100 - 125 cm (H) x 50 - 100 m (L)
<b>FB-RC225-TH12-R16</b>	210 GPa	5100 MPa	16 x 16 mm	200 g/m <sup>2</sup>	100 - 125 cm (H) x 50 - 100 m (L)



## CARBON FIBER LAMINATES

### BETONTEX FB-G\_L

Pack. in rolls

PREFORMED CARBON FIBER LAMINATES.

Product	Thickness	Available widths	Roll dimensions
<b>HIGH TENACITY E = 170 GP - TENSILE STRENGTH: 2800 MPa</b>			
<b>FB-G12L-HT</b>	1.2 mm	50 - 80 - 100 - 120	25 - 50 - 100 m (L)
<b>HIGH TENACITY E = 170 GPa - TENSILE STRENGTH: 2800 MPa</b>			
<b>FB-G14L-HT</b>	1.4 mm	50 - 80 - 100 - 120	25 - 50 - 100 m (L)
<b>HIGH MODULUS E = 200 GP - TENSILE STRENGTH: 2200 MPa</b>			
<b>FB-G14L-HM</b>	1.4 mm	50 - 60 - 80 - 100 - 120 - 150	25 - 50 - 100 m (L)
<b>ULTRA HIGH MODULUS E = 250 GPa - TENSILE STRENGTH: 2500 MPa</b>			
<b>FB-G14L-HHM</b>	1.4 mm	50 - 60 - 80 - 100 - 120 - 150	25 - 50 - 100 m (L)



## CONNECTORS, BOWS AND BARS FOR ALL SYSTEMS

SEE PAGE 26/27/28

## EPOXY RESINS FOR BONDING AND IMPREGNATION

### BETONTEX

#### FB-RC01

Pack A 4 kg + Pack B 2 kg

LOW-VISCOSITY EPOXY RESIN, USED AS A PRIMER FOR SURFACE PREPARATION PRIOR TO APPLYING ADHESIVE RESINS AND CARBON FIBER REINFORCEMENT (FABRIC OR PLATE).



Product	Average consumption	Appearance
<b>FB-RC01</b>	150 ÷ 300 g/m <sup>2</sup>	transparent liquid

### BETONTEX

#### FB-RC02

Pack A 4 kg + Pack B 2 kg

THIXOTROPIC EPOXY RESIN FUNCTIONING AS AN ADHESIVE AND IMPREGNATING AGENT FOR THE APPLICATION OF STRIPS, FABRICS, OR MESHES ONTO THE SUBSTRATE TO BE REINFORCED.



Product	Weight of the applied fabric	Average consumption	
		First layer	Layers subsequent
<b>FB-RC02</b>	300 g/m <sup>2</sup>	approx. 600 g/m <sup>2</sup>	approx. 300 g/m <sup>2</sup>
	400 g/m <sup>2</sup>	approx. 800 g/m <sup>2</sup>	approx. 400 g/m <sup>2</sup>
	600 g/m <sup>2</sup>	approx. 1200 g/m <sup>2</sup>	approx. 600 g/m <sup>2</sup>

### BETONTEX

#### FB-RC30/3

Pack. A 4 kg + Pack. B 1 kg  
600 g Cartridges - Pack./Box: 12

THIXOTROPIC THICKENED EPOXY RESIN FOR THE APPLICATION OF CARBON FIBER LAMINATES.



Product	Average consumption	Appearance
<b>FB-RC30/3</b>	approx. 3 ÷ 5 kg/m <sup>2</sup> (sheets) approx. 1.5 ÷ 3 kg/m (BARS)	Grey paste

## SYSTEM ACCESSORIES

#### FB-ROLLER

BUBBLE-BREAKING ROLLER

#### FB-APPL

KIT CONSISTING OF:

- No. 6 SMALL BUCKETS (NO. 3 OF 2.5 L + NO. 3 OF 5.8 L)
- No. 2 BRUSHES OF 5 CM
- No. 2 ROLLERS OF 10 CM
- No. 1 PAIR OF SCISSORS FOR CUTTING
- No. 1 CUTTER
- No. 3 SPATULAS 30-50 MM
- No. 1 PLASTIC MIXING WHISK
- No. 1 PRECISION SCALE FOR MATERIAL WEIGHING
- No. 10 REPLACEMENT ROLLERS
- No. 1 CAN OPENER TOOL

#### ACMYLAR25-490X600

POLYETHYLENE TEREPHTHALATE SHEET (MYLAR®)  
FOR FRP LAMINATION, DIMENSIONS 490X600

#### SQ 0048

GROUND QUARTZ SAND 0,4 / 0,8 mm

#### SQ 0102

GROUND QUARTZ SAND 1,0 / 2,0 mm

#### FB-ACET

Diluent (acetone) for equipment cleaning - Pack. 1 L





# REINFORCED REPOINTING SYSTEM RETICOLA



The **RETICOLA** system consists of the execution of reinforced repointing on masonry to be maintained "exposed," through stainless steel strands and connectors positioned beneath the joint. reinforced repointing of the joints is the optimal solution for enhancing the mechanical properties of "exposed" masonry, as it provides effective confinement and increases mechanical resistance without compromising the aesthetic appearance or the character of the structure. this type of reinforcement improves shear and compression strengths and yields a significant increase in ductility.

## FIELDS OF APPLICATION

**02** INTERVENTIONS ON EXPOSED MASONRY

**04** INTERVENTIONS ON MASONRY INFRASTRUCTURES

## RETICOLA FBRT

Coils: 100 m.

AISI 316 STAINLESS STEEL STRAND.

Product	Diameter Nominal	Weight	Characteristic strength at rupture (Rm)
<b>FBRT 03-149</b>	3 mm	3.46 kg/100 m	1187 MPa 5.22 kN
<b>FBRT 05-149</b>	5 mm	9.6 kg/100 m	1216 MPa 15.1 kN



## RETICOLA FBRC

Pack. of 10 or 25 pieces

AISI 316 STAINLESS STEEL CONNECTORS, DIAMETER 8MM.

Product	Configuration	Lengths
<b>FBRC-08-INFR</b>	non passing through threaded with anchor and nut	200 - 400 - 600 - 1000 mm
<b>FBRC-08-IPFD</b>	passing through-threaded with ring and plate+nut	200 - 400 - 600 - 1000 mm
<b>FBRC-08-IPFR</b>	passing through-threaded with ring and anchor+nut	300 - 450 - 650 - 750 - 850 - 950 mm



# CONNECTORS, BOWS AND BARS FOR ALL SYSTEMS



## FB-HBAR

Pack. 1-2-10 m

AUSTENITIC STAINLESS STEEL HELICAL BAR CONNECTOR AISI 304 (A2) OR AISI 316 (A4).

Product name	Nominal diameter (mm)	Elastic modulus	Tensile strength
<b>FB-HBAR06-A2/A4</b>	6 mm	107 GPa	Average 1165 MPa Characteristic 1122 MPa
<b>FB-HBAR08-A2/A4</b>	8 mm	114 GPa	Average 1101 MPa Characteristic 1080 MPa
<b>FB-HBAR10-A2/A4</b>	10 mm	169 GPa	Average 1164 MPa Characteristic 1146 MPa
<b>FB-HBAR12-A2/A4</b>	12 mm	146 GPa	Average 882 MPa



## BOWS

## FB-TUF\_VAR

Pack. 10-25-50-100 m

GLASS FIBER BOWS WITH EXTERNAL SLEEVE IN ELASTIC MESH FOR THE ANCHORAGE OF FRP REINFORCEMENT IN MASONRY, REINFORCED CONCRETE, OR STEEL STRUCTURES. APPLICABLE WITH CRM AND FRCM SYSTEMS.

Product	Nominal diameter Impregnated section (mm) <sup>(1)</sup>	Tensile strength Connector (average value)	Elastic modulus of the yarn
<b>FB-TUF08-VAR</b>	8 mm	Approx. 12.0 kN	68.5 GPa
<b>FB-TUF10-VAR</b>	10 mm	Approx. 18.7 kN	68.5 GPa
<b>FB-TUF12-VAR</b>	12 mm	approx. 26.7 kN	68.5 GPa



<sup>(1)</sup> Values corresponding to a resin content of 65% in the impregnated flake.

## FB-TUP10-VAR1A FB-TUP10-VAR2A

Pack. 25-50-100 pcs

GFRP FIBER-REINFORCED COMPOSITE MATERIAL ROD CONSISTING OF CHEMICALLY RESISTANT GLASS FIBER AND THERMOSETTING RESIN, 10 MM DIAMETER, EQUIPPED WITH A GLASS FIBER BOW TO BE IMPREGNATED IN SITU. APPLICABLE WITH CRM AND FRCM SYSTEMS.

Product	Ends to impregnate	Length preformed part	Composite elastic modulus	Composite tensile strength
<b>FB-TUP10-VAR1A</b>	1 x 20 cm	from 10 to 100 cm	35 GPa	Average 800 MPa Characteristic 560 MPa
<b>FB-TUP10-VAR2A</b>	2 x 20 cm			



## FB-TUF

Pack. 10-25-50-100 m

CARBON FIBER BOW WITH EXTERNAL JACKET IN ELASTIC MESH FOR ANCHORING FRP REINFORCEMENT IN MASONRY, REINFORCED CONCRETE, OR STEEL STRUCTURES. APPLICABLE WITH FRP, CRM AND FRCM SYSTEMS.

Product	Diameter Nominal	Overall cross-section of carbon fibers	Tensile strength of the fiber
<b>HIGH TENACITY E = 245 GPa</b>			
<b>FB-TUF_CHT</b>	8 - 10 - 12 mm	18 - 28 - 40 mm <sup>2</sup>	4,800 MPa
<b>HIGH MODULUS E = 390 GPa</b>			
<b>FB-TUF_CHM</b>	8 - 10 - 12 mm	18 - 28 - 40 mm <sup>2</sup>	4,700 MPa



## FB-TUP10-CHT1A FB-TUP10-CHT2A

Pack. 25-50 pcs

CFRP FIBER-REINFORCED, 10 MM DIAMETER, MADE OF CARBON FIBER AND THERMOSETTING RESIN, EQUIPPED WITH A CARBON FIBER BOW TO BE IMPREGNATED IN SITU. APPLICABLE WITH CRM, FRCM, FRP SYSTEMS.

Product	Ends to impregnate	Length preformed part	Composite elastic modulus	Composite tensile strength
<b>FB-TUP10-CHT1A</b>	1 x 20 cm	from 10 to 100 cm	130 GPa	Average 1700 MPa Characteristic 1190 MPa
<b>FB-TUP10-CHT2A</b>	2 x 20 cm			



## PREFORMED BARS

### PB-D\_G17

Pack. 1-2-6 m

PREFORMED BAR IN FIBER-REINFORCED COMPOSITE GFRP (GLASS FIBER REINFORCED POLYMER) MATERIAL COMPOSED OF CHEMICALLY RESISTANT GLASS FIBER AND THERMOSETTING POLYESTER RESIN.

Standard length	Diameter	Elastic modulus	Resistance in tension
2000 mm	4 mm 26 mm	35 GPa	Average 800 MPa Characteristic 560 MPa



## PB-D\_-G17AM

Pack. 1-2-6 m

PREFORMED BAR IN FIBER-REINFORCED COMPOSITE GFRP (GLASS FIBER REINFORCED POLYMER) MATERIAL WITH ENHANCED ADHESION, COMPOSED OF CHEMICALLY RESISTANT GLASS FIBER AND THERMOSETTING POLYESTER RESIN.

Standard length	Diameter	Elastic modulus	Tensile strength
2000 mm	4 mm 26 mm	35 GPa	Average 800 MPa Characteristic 560 MPa



## FB-G\_BL-HT

Pack. 1-2-6 m

PREFORMED BAR IN CFRP FIBER-REINFORCED COMPOSITE MATERIAL (CARBON FIBER REINFORCED POLYMER), SMOOTH, COMPOSED OF HIGH-TENACITY CHEMICALLY RESISTANT CARBON FIBER AND THERMOSETTING RESIN.

Standard length	Diameter	Elastic modulus	Tensile strength
2000 mm	From 6 mm To 16 mm	130 GPa	Average 1700 MPa Characteristic 1190 MPa



## FB-G\_BAM-HT

Pack. 1-2-6 m

PREFORMED BAR IN CFRP FIBER-REINFORCED COMPOSITE MATERIAL (CARBON FIBER REINFORCED POLYMER) WITH IMPROVED ADHESION, CONSISTING OF CHEMICALLY RESISTANT HIGH-TENACITY CARBON FIBER AND THERMOSETTING RESIN.

Standard length	Diameter	Elastic modulus	Tensile strength
2000 mm	From 6 mm To 16 mm	130 GPa	Average 1700 MPa Characteristic 1190 MPa



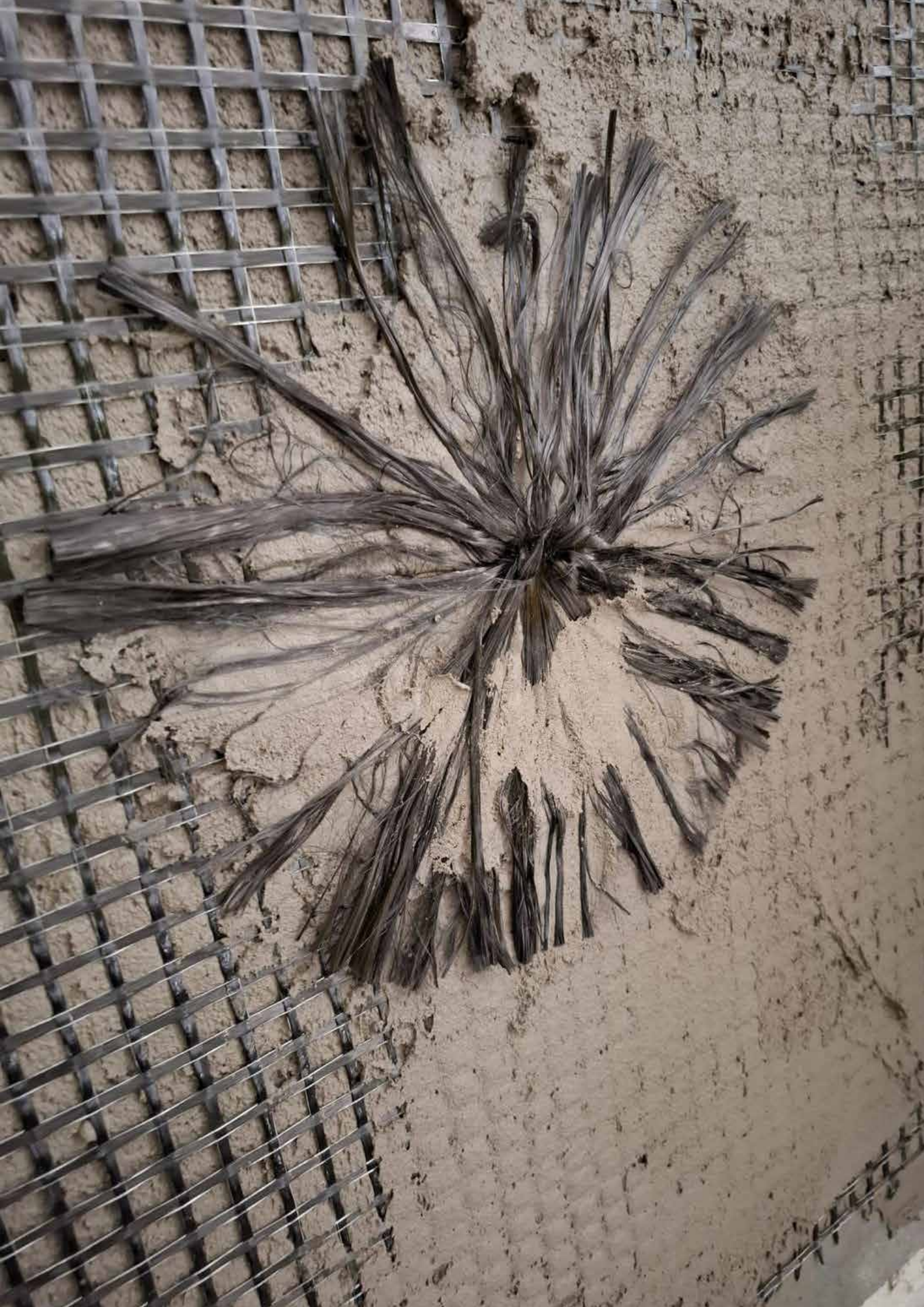
## FB-G\_BAM-HM

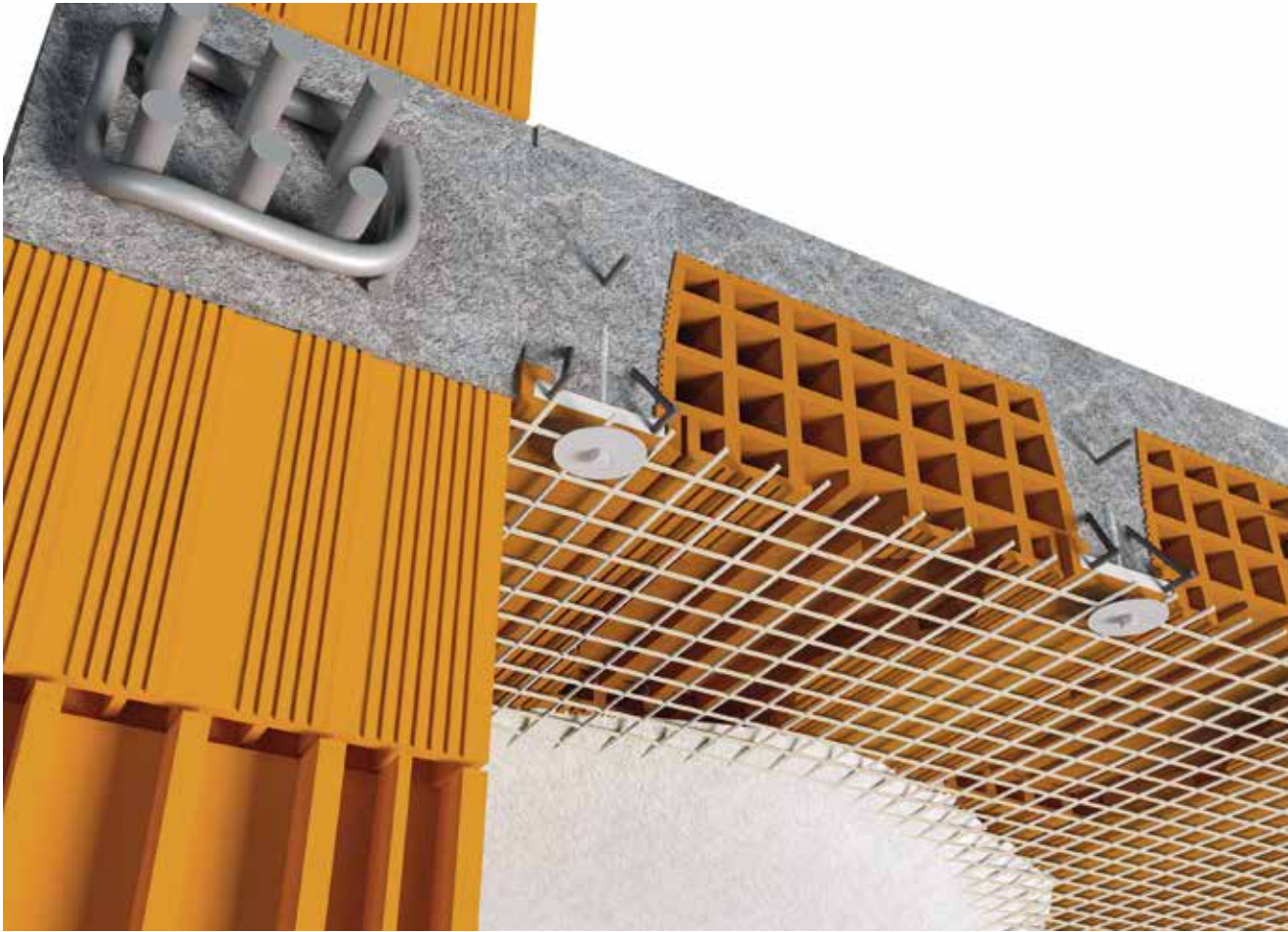
Pack. 1-2-6 m

PREFORMED BAR IN CFRP FIBER-REINFORCED COMPOSITE MATERIAL (CARBON FIBER REINFORCED POLYMER) WITH IMPROVED ADHESION, CONSISTING OF CHEMICALLY RESISTANT HIGH-MODULUS CARBON FIBER AND THERMOSETTING RESIN.

Standard length	Diameter	Elastic modulus	Tensile strength
2000 mm	From 6 mm To 16 mm	200 GPa	Average 1980 MPa Characteristic 1800 MPa







## ANTI-COLLAPSING

### LIFE+

**LIFE+** is a system for securing concrete, steel, or timber slabs affected by the detachment of elements such as portions of plaster or blocks, a phenomenon known as "bottom-collapsing".

**LIFE+** involves the application of preformed meshes composed of glass fibers and thermosetting resins, fixed onto the joists at the intrados of the floor via specifically dimensioned structural connection systems, ensuring effective containment of the detached elements. Once secured, the floor system can remain exposed, be plastered, or be covered with a false ceiling.

Securing reinforced concrete, timber, and steel slabs due to:

- Design defects
- Poor quality of materials and workmanship
- Insufficient maintenance of the structure
- Applied loads



LIFE+

## FBMESH

Pack. in rolls of 40, 60, and 80 m<sup>2</sup>

PREFORMED MESH IN GFRP (GLASS FIBER REINFORCED POLYMER) COMPOSED OF LONG ALKALI-RESISTANT GLASS FIBERS IMPREGNATED WITH A THERMOSETTING EPOXY-VINYLESTER RESIN.



EPDITALY0588



Product	Mesh size	Weight	Tensile strength of the mesh (minimum value between the two directions)		Elastic modulus
			Average	Characteristic	
<b>FBMESH66X66/33T96</b>	66 x 66 mm	approx. 520 g/m <sup>2</sup>	84 kN/m	64.5 kN/m	250 MPa
<b>FBMESH99X99/33T96</b>	99 x 99 mm	approx. 320 g/m <sup>2</sup>	56.0 kN/m	43.0 kN/m	250 MPa

LIFE+

## FBKIT-M\_INOX

STAINLESS STEEL CONNECTOR WITH SCREW AND WASHER. SUITABLE FOR CRACKED OR SEVERELY DEGRADED CONCRETE.

Product	Diameter	Screw length	Concrete tensile strength Uncracked C20/25		Shear	
			N <sub>rd,ucr</sub> <sup>(1)</sup>	N <sub>ucr</sub> <sup>(2)</sup>	V <sub>rd,ucr</sub> <sup>(1)</sup>	V <sub>ucr</sub> <sup>(2)</sup>
<b>FBKIT-M8X115INOX</b>	8 mm	115 mm	6.0 kN	4.3 kN	9.2 kN	6.5 kN
<b>FBKIT-M8x135INOX</b>	8 mm	135 mm	6.0 kN	4.3 kN	9.1 kN	6.5 kN
<b>FBKIT-M8X165INOX</b>	8 mm	165 mm	6.0 kN	4.3 kN	9.2 kN	6.5 kN
<b>FBKIT-M12X170INOX</b>	12 mm	170 mm	13.3 kN	9.5 kN	21.1 kN	15.1 kN



LIFE+

## FBKIT-M\_GALV

ZINC-PLATED STEEL CONNECTOR WITH SCREW AND WASHER. SUITABLE FOR CRACKED OR SEVERELY DEGRADED CONCRETE.

Product	Diameter	Screw length	Concrete tensile strength Uncracked C20/25		Shear	
			N <sub>rd,ucr</sub> <sup>(1)</sup>	N <sub>ucr</sub> <sup>(2)</sup>	V <sub>rd,ucr</sub> <sup>(1)</sup>	V <sub>ucr</sub> <sup>(2)</sup>
<b>FBKIT-M8X115GALV</b>	8 mm	115 mm	6.7 kN	4.8 kN	10.9 kN	7.8 kN
<b>FBKIT-M8x135GALV</b>	8 mm	135 mm	6.0 kN	4.3 kN	8.6 kN	6.1 kN



(1) The design loads N<sub>rd</sub> and V<sub>rd</sub> are derived from characteristic loads reported in the ETA-09/0056 certification and include the partial safety factors γ<sub>m</sub> pertaining to the individual diameter.

(2) The allowable loads N and V are derived from characteristic loads reported in the ETA-09/0056 certification and include the partial safety factors γ<sub>f</sub>=1.4 and γ<sub>m</sub> pertaining to the individual diameter.

LIFE+

## FBKIT-NYLON-\_GALV

GALVANIZED STEEL CONNECTOR WITH SCREW AND WASHER. SUITABLE FOR CRACKED OR SEVERELY DEGRADED CONCRETE.

Product	Diameter	Screw length	Concrete C16/20	
			F <sub>rd</sub> [kN]	h <sub>min</sub> [mm]
<b>FBKIT-NYLON-8X170 GALV</b>	8 mm	170 mm	1.40 kN	100 mm
<b>FBKIT-NYLON-6x60 GALV</b>	6 mm	60 mm	0.55 kN	80 mm







# CIVIL MORTARS



# EPOCA

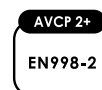
**EPOCA** is the product line for consolidation, renovation, restoration, and reinforcement works on masonry elements, comprising plaster and masonry mortars based on NHL natural hydraulic lime and hydraulic binders, pure lime, finishing, and protective skim coats.



## EPOCA CALCE - NHL 105/110/115

25 kg bag

MORTAR BASED ON NHL LIME FOR RESTORATION AND STRUCTURAL REINFORCEMENT OF MASONRY ELEMENTS.

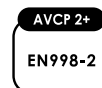


Product	Average consumption per cm thickness	Resistance to compression (28 days)	Elastic modulus
<b>EPOCA CALCE – NHL 105</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 5 MPa	8 ± 2 GPa
<b>EPOCA CALCE – NHL 110</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 10 MPa	10 ± 2 GPa
<b>EPOCA CALCE – NHL 115</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 15 MPa	10 ± 2 GPa

## EPOCA STORICA - NHL 105/110/115

25 kg bag

MORTAR OF PURE NATURAL HYDRAULIC LIME FOR RESTORATION AND STRUCTURAL REINFORCEMENT OF MASONRY ELEMENTS.



Product	Average consumption per cm thickness	Resistance to compression (28 days)	Elastic modulus
<b>EPOCA STORICA – NHL 105</b>	16 ÷ 18 kg/m <sup>2</sup>	≥ 8 MPa	9 ± 2 GPa
<b>EPOCA STORICA – NHL 110</b>	16 ÷ 18 kg/m <sup>2</sup>	≥ 12 MPa	11 ± 2 GPa
<b>EPOCA STORICA – NHL 115</b>	16 ÷ 18 kg/m <sup>2</sup>	≥ 16 MPa	13 ± 2 GPa

**EPOCA****RASO NHL - RNHL 105**

25 kg bag

FINE BREATHABLE MORTAR BASED ON NHL LIME FOR THE SKIMMING OF PLASTERS.



Average consumption per cm thickness	Resistance to compression (28 days)	Granulometry
1.2 ÷ 1.4 kg/m <sup>2</sup> per each mm of applied thickness	≥ 15 MPa	≤ 0.6 mm

**EPOCA****STORICA RASO- RNHL 105**

25 kg bag

FINE BREATHABLE MORTAR OF PURE NATURAL HYDRAULIC LIME FOR SKIM COATING OF PLASTERS.



Average consumption per cm thickness	Resistance to compression (28 days)	Granulometry
1.3÷1.5 kg/m <sup>2</sup> per each mm of applied thickness	≥ 5 MPa	≤ 1.0 mm

**EPOCA****CALCE - NHL 093**

23 kg bag

SUPERFLUID BINDER BASED ON NHL LIME FOR CONSOLIDATION INJECTIONS OF MASONRY ELEMENTS.



Average consumption	Resistance to compression (28 days)
approx. 1.4 kg of binder per dm <sup>3</sup> of fresh grout	≥ 10 MPa



# MATERIA

**MATERIA** is the product line for consolidation, renovation, restoration, and reinforcement of masonry elements, comprising plaster and masonry mortars based on hydrated lime and hydraulic binders, as well as finishing and protective skim coats.



## MATERIA RINFORZA - RZ 210 / 215

25 kg bag

MORTAR BASED ON HYDRAULIC BINDERS FOR RESTORATION AND STRUCTURAL REINFORCEMENT OF MASONRY ELEMENTS.



Product	Average consumption per cm thickness	Resistance to compression (28 days)	Elastic modulus
<b>MATERIA RINFORZA – RZ 210</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 10 MPa	8 ± 2 GPa
<b>MATERIA RINFORZA – RZ 215</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 15 MPa	10 ± 2 GPa

## MATERIA RINFORZA - 220 / 230 / 240

25 kg bag

MORTAR BASED ON HYDRAULIC BINDERS WITH HIGH MECHANICAL PERFORMANCE FOR RESTORATION AND STRUCTURAL REINFORCEMENT OF MASONRY ELEMENTS.



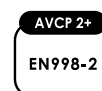
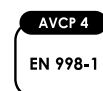
Product	Average consumption per cm thickness	Resistance to compression (28 days)	Elastic modulus
<b>MATERIA RINFORZA – RZ 220</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 20 MPa	15 ± 2 GPa
<b>MATERIA RINFORZA – RZ 230</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 30 MPa	21 ± 2 GPa
<b>MATERIA RINFORZA – RZ 240</b>	15 ÷ 17 kg/m <sup>2</sup>	≥ 40 MPa	24 ± 2 GPa

MATERIA

**RINFORZA - RZ 225 PM**

25 kg bag

MORTAR BASED ON HYDRAULIC BINDERS, POLYMER-MODIFIED, FOR RESTORATION AND STRUCTURAL REINFORCEMENT OF MASONRY ELEMENTS, USED IN COMBINATION WITH COMPOSITE MESHES.



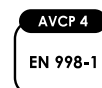
Product	Average consumption per cm thickness	Resistance to compression (28 days)	Elastic modulus
<b>MATERIA RINFORZA - RZ 225 PM</b>	17 ÷ 18 kg/m <sup>2</sup>	≥ 25 MPa	12 ± 2 GPa

MATERIA

**RASO LEGO - RL 103**

25 kg bag

FINE MORTAR BASED ON HYDRAULIC BINDERS FOR SMOOTHING PLASTERS.



Product	Average consumption per cm thickness	Resistance to compression (28 days)
<b>MATERIA RASO LEGO - RL 103</b>	1.50 kg/m <sup>2</sup> per each mm of thickness	≥ 6.5 MPa

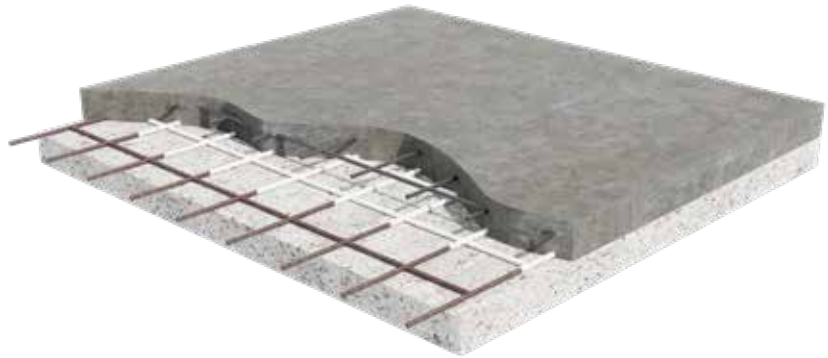




# MORTARS AND PRODUCTS FOR REPAIR



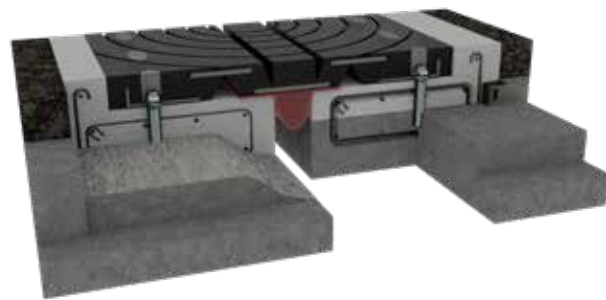
**01** CONCRETE RECONSTRUCTION



**02** REPAIR AND JACKETING FOR GROUTING



**03** FIBER-REINFORCED PRODUCTS WITH DUCTILE BEHAVIOR



**04** INSTALLATION OF JOINT DEVICES



## 05 INTERVENTIONS ON INFRASTRUCTURES

### STRUTTURA



Thixotropic and pourable mortars For repair and consolidation: cementitious smoothing mortars for surface regularization, structural concrete for jacketing interventions, and fiber-reinforced mortars exhibiting ductile behavior. High-performance fluid mortars for structural anchoring and the installation of road joints.

### INTEGRA



Passivators for reinforcement bars, polymeric resins, and latexes for casting resumption, adhesion enhancement, and reinforcement anchorage. Additionally, specific additives to modify the rheological, mechanical, or chemical-physical properties of mortars and concretes, along with selected aggregates.

### LEGO



Binders with compensated shrinkage for the preparation of screeds, mortars, and concretes with volumetric stability, suitable for structural castings, slabs, industrial flooring, foundation plates, and any other applications where structural restraint and crack absence are essential requirements.

### FIXA



Chemical anchors in cartridge form for structural fastening on cracked and non-cracked concrete, compact masonry, and other mineral substrates; Formulated with epoxy, vinylester, polyester resins, or hybrids. Suitable for structural applications in the civil and infrastructure sectors.



# STRUTTURA TIXO



Thixotropic, compensated shrinkage, polymer-modified mortars reinforced with synthetic and inorganic fibers, air-expansive, for cortical and structural repairs of concrete elements.

The products of the **STRUTTURA TIXO** line meet the performance requirements set by the European standard **EN 1504-3** for structural mortars of **Class R4, Type CC** (Cement Concrete/ Cementitious Mortar) and **PCC** (Polymer Cement Concrete Mortar), and comply with the specifications outlined in major public and private specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**01** CONCRETE  
RECONSTRUCTION

**05** INTERVENTIONS ON  
INFRASTRUCTURES

### STRUTTURA TIXO - TX 251

25 kg bag - Pack./pallet: 60

POLYMER-MODIFIED THIXOTROPIC CEMENTITIOUS PREMIXED MORTAR REINFORCED WITH SYNTHETIC FIBERS, DESIGNED FOR SMOOTHING AND REPAIRING CONCRETE STRUCTURES AT VARIABLE THICKNESSES. FINE-GRAIN FORMULATION.



Average consumption	Thickness of application	Resistance to compression (28 days)
17 kg per m <sup>2</sup> per cm thickness	4 ÷ 50 mm	≥ 45 MPa

### STRUTTURA TIXO - TX 259

25 kg bag - Pack./pallet: 60

POLYMER-MODIFIED THIXOTROPIC CEMENTITIOUS PREMIXED MORTAR REINFORCED WITH SYNTHETIC FIBERS, DESIGNED FOR THE REPAIR OF CONCRETE STRUCTURES. MEDIUM-GRAIN FORMULATION.



Average consumption	Thickness of application	Resistance to compression (28 days)
18.4 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm per layer	≥ 50 MPa

## STRUTTURA

## TIXO - TX 351

25 kg bag - (Comp. A) - 5 kg canister - (Comp. B INTEGRA SPECIAL LT 912) - Pack./pallet: 60

TWO-COMPONENT POLYMER-MODIFIED THIXOTROPIC PREMIXED CEMENTITIOUS MORTAR WITH SYNTHETIC FIBERS. IDEAL FOR THE REPAIR OF CONCRETE STRUCTURES; COARSE-GRAIN FORMULATION.



Average consumption	Thickness of application	Resistance to compression (28 days)
21.0 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm per layer	≥ 55 MPa

## STRUTTURA

## TIXO - TX 376

25 kg bag - Pack./pallet: 60

SHRINKAGE-COMPENSATED THIXOTROPIC PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC FIBERS AND HIGHLY DURABLE. IDEAL FOR THE REPAIR OF CONCRETE STRUCTURES; COARSE-GRAIN FORMULATION.



Average consumption	Thickness of application	Resistance to compression (28 days)
18.6 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm per layer	≥ 60 MPa

## STRUTTURA

## TIXO - TX 468 SR

25 kg bag - Pack./pallet: 60

SHRINKAGE-COMPENSATED THIXOTROPIC PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC FIBERS, OFFERING HIGH DURABILITY AND RESISTANCE TO SULFATES AND AGGRESSIVE AGENTS. DESIGNED FOR THE RESTORATION AND REPAIR OF CONCRETE ELEMENTS; COARSE-GRAIN FORMULATION.



Average consumption	Thickness of application	Resistance to compression (28 days)
18.6 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm per layer	≥ 60 MPa

## STRUTTURA

## TIXO - TX 500

25 kg bag - Pack./pallet: 60

SHRINKAGE-COMPENSATED THIXOTROPIC PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC AND INORGANIC FIBERS, OFFERING HIGH DURABILITY. DESIGNED AS A REPAIR MORTAR FOR CONCRETE ELEMENTS; TWO-COMPONENT PRODUCT.



Average consumption	Thickness of application	Resistance to compression (28 days)
18.6 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm per layer	≥ 60 MPa

## STRUTTURA

## TIXO - TX 750 RP

25 kg bag - Pack./pallet: 60

PREMIXED RAPID-SETTING AND RAPID-HARDENING THIXOTROPIC CEMENTITIOUS MORTAR, REINFORCED WITH FLEXIBLE LAMELLAR FIBERS, DESIGNED FOR THE REPAIR OF CONCRETE ELEMENTS AND THE FIXING OF VEHICULAR COMPONENTS SUCH AS MANHOLE COVERS, CATCH BASINS, AND METAL ELEMENTS.



Average consumption	Thickness of application	Resistance to compression (28 days)
19.5 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm per layer	≥ 55 MPa



# STRUTTURA FLUIDO

Shrinkage-compensated cementitious mortars and micro-concretes with high mechanical strength, pourable, reinforced with synthetic and inorganic fibers, for the repair, restoration, and reinforcement of concrete elements and for precision anchoring.

The products of the **STRUTTURA FLUIDO** line comply with the performance requirements specified by European standards **EN 1504-6** for anchoring products and **EN 1504-3** for structural mortars of **Class R4, Type CC** (Cement Concrete/Cementitious Mortar).

They also conform to the requirements set forth by the main public and private specifications for restoration and maintenance works.

## FIELDS OF APPLICATION

**01** CONCRETE RECONSTRUCTION

**02** REPAIR AND JACKETING FOR GROUTING

**05** INTERVENTIONS ON INFRASTRUCTURES

### STRUTTURA FLUIDO - FL 469

25 kg bag - Pack./pallet: 60

SHRINKAGE-COMPENSATED PREMIXED SUPERFLUID CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC AND INORGANIC FIBERS, OFFERING HIGH DURABILITY. DESIGNED FOR THE REPAIR AND JACKETING OF CONCRETE STRUCTURES AND SLAB APPLICATIONS; SUITABLE FOR USE WITHOUT REINFORCEMENT MESH.



Average consumption	Thickness of application	Resistance to compression (28 days)
20 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm	≥ 65 MPa

### STRUTTURA FLUIDO - FL 470

25 kg bag - Pack./pallet: 60

SHRINKAGE-COMPENSATED HIGHLY FLUID PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC FIBERS, OFFERING HIGH DURABILITY. DESIGNED FOR THE REPAIR AND JACKETING OF CONCRETE STRUCTURES AND SLAB APPLICATIONS WITH REINFORCEMENT MESH.



Average consumption	Thickness of application	Resistance to compression (28 days)
20.2 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm	≥ 75 MPa

## STRUTTURA

**FLUIDO - FL 475**

1500 kg big bag



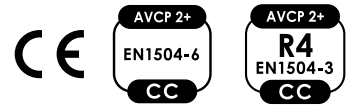
SHRINKAGE-COMPENSATED HIGHLY FLUID PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC FIBERS, OFFERING HIGH DURABILITY. DESIGNED FOR THE REPAIR AND JACKETING OF CONCRETE STRUCTURES AND SLAB APPLICATIONS; SUITABLE FOR THICKNESSES FROM 50 TO 100 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
20 kg per m <sup>2</sup> per cm thickness	≥ 50 mm	≥ 70 MPa

## STRUTTURA

**FLUIDO - FL 179**

25 kg bag - Pack./pallet: 60



SHRINKAGE-COMPENSATED SUPERFLUID PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC FIBERS, HIGHLY DURABLE. DESIGNED FOR CONCRETE JACKETING AND RESTORATION, AS WELL AS PRECISION ANCHORING AND GROUTING; APPLICABLE IN THICKNESSES FROM 10 TO 50 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
20 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm	≥ 70 MPa

## STRUTTURA

**FLUIDO - FL 170**

1500 kg big bag



SHRINKAGE-COMPENSATED HIGHLY FLUID PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH SYNTHETIC FIBERS, OFFERING HIGH DURABILITY. DESIGNED FOR CONCRETE JACKETING AND RESTORATION, AS WELL AS PRECISION ANCHORING AND GROUTING; APPLICABLE IN THICKNESSES FROM 50 TO 100 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
21 kg per m <sup>2</sup> per cm thickness	≥ 50 mm	≥ 75 MPa

## STRUTTURA

**FLUIDO - FL 190 RP**

25 kg bag - Pack./pallet: 60



RAPID-HARDENING HIGHLY FLUID PREMIXED CEMENTITIOUS MORTAR WITH SYNTHETIC FIBERS. DESIGNED FOR RAPID-SETTING ANCHORING AND GROUTING AT LOW TEMPERATURES; APPLICABLE IN THICKNESSES FROM 10 TO 50 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
20.5 kg per m <sup>2</sup> per cm thickness	10 ÷ 50 mm	≥ 85 MPa



# STRUTTURA STEEL FLUID

Compensated shrinkage cementitious mortars, reinforced with steel fibers, fluid and with very high mechanical strength, suitable for the repair and reinforcement of concrete elements, even under particularly severe service conditions.

The products of the **STRUTTURA STEEL FLUID** line comply with the performance requirements prescribed by the European standard **EN 1504-3** for structural mortars **Class R4, Type CC** (Cement Concrete/Cementitious Mortar) and conform to the specifications set forth by major public and private specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**03** FIBER-REINFORCED PRODUCTS WITH DUCTILE BEHAVIOR

**04** INSTALLATION OF JOINT DEVICES

**05** INTERVENTIONS ON INFRASTRUCTURES

## STRUTTURA STEEL FLUID - SF 100

25 kg bag - Pack./pallet: 60

### SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

SHRINKAGE-COMPENSATED HIGHLY FLOWABLE PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH METALLIC FIBERS, HIGHLY DURABLE, DESIGNED FOR CONCRETE JACKETING AND RESTORATION WITHOUT REINFORCEMENT; SUITABLE FOR SLAB APPLICATIONS.



Average consumption	Thickness of Application	Resistance to Compression (28 days)
21 kg per m <sup>2</sup> per cm thickness	10 ÷ 150 mm	≥ 70 MPa

## STRUTTURA STEEL FLUID - SF 100 IN

25 kg bag - Pack./pallet: 60

SHRINKAGE-COMPENSATED HIGHLY FLOWABLE PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH METALLIC FIBERS, HIGHLY DURABLE AND DUCTILE, DESIGNED FOR CONCRETE JACKETING AND RESTORATION WITHOUT REINFORCEMENT; SUITABLE FOR SLAB APPLICATIONS.



Average consumption	Thickness of Application	Resistance to Compression (28 days)
21 kg per m <sup>2</sup> per cm thickness	10 ÷ 150 mm	≥ 90 MPa

## STRUTTURA STEEL FLUID - SF 100 RP

25 kg bag - Pack./pallet: 60



### SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

PREMIXED CEMENTITIOUS MORTAR WITH RAPID HARDENING, SUPERFLUID CONSISTENCY, REINFORCED WITH METALLIC FIBERS, HIGHLY DURABLE, DESIGNED FOR CONCRETE JACKETING AND RESTORATION WITHOUT REINFORCEMENT; SUITABLE FOR SLAB APPLICATIONS.

Average consumption	Thickness of application	Resistance to compression (28 days)
20.5 kg per m <sup>2</sup> per cm thickness	10 ÷ 150 mm	≥ 90 MPa

## STRUTTURA STEEL FLUID - SF 130 IN

25 kg bag - Pack./pallet: 60



SHRINKAGE-COMPENSATED HIGHLY FLOWABLE PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH METALLIC FIBERS, HIGHLY DURABLE AND DUCTILE, DESIGNED FOR CONCRETE JACKETING AND RESTORATION WITHOUT REINFORCEMENT; SUITABLE FOR SLAB APPLICATIONS.

Average consumption	Thickness of application	Resistance to compression (28 days)
21 kg per m <sup>2</sup> per cm thickness	10 ÷ 100 mm	≥ 130 MPa

## STRUTTURA STEEL FLUID - SF 130 IN-G

25 kg bag - Pack./pallet: 60



SHRINKAGE-COMPENSATED HIGHLY FLOWABLE PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH GALVANIZED METALLIC FIBERS, HIGHLY DURABLE AND DUCTILE, DESIGNED FOR CONCRETE JACKETING AND RESTORATION WITHOUT REINFORCEMENT; IDEAL FOR CORROSIVE ENVIRONMENTS, SUITABLE FOR SLAB APPLICATIONS.

Average consumption	Thickness of application	Resistance to compression (28 days)
21 kg per m <sup>2</sup> per cm thickness	10 ÷ 100 mm	≥ 130 MPa

## STRUTTURA STEEL FLUID - SF 130 IN-K

25 kg bag - Pack./pallet: 60



SHRINKAGE-COMPENSATED HIGHLY FLOWABLE PREMIXED CEMENTITIOUS MORTAR, REINFORCED WITH METALLIC FIBERS, HIGHLY WATERPROOF AND DUCTILE, DESIGNED FOR CONCRETE JACKETING AND RESTORATION WITHOUT REINFORCEMENT; IDEAL FOR AGGRESSIVE SULFATE ENVIRONMENTS, SUITABLE FOR SLAB APPLICATIONS.

Average consumption	Thickness of application	Resistance to compression (28 days)
21 kg per m <sup>2</sup> per cm thickness	10 ÷ 100 mm	≥ 130 MPa



# STRUTTURA BETON

Pre-dosed, two-component cementitious concretes with high mechanical strength, pourable, reinforced with synthetic and metallic fibers, for the repair, restoration, and reinforcement of concrete elements.

The products of the **STRUTTURA BETON** line comply with the performance requirements of European standards **EN 1504-6** for anchoring products and **EN 1504-3** for structural mortars **Class R4, Type CC** (Cement Concrete/Cementitious Mortar), and conform to the specifications set by major public and private public specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**02** REPAIR AND JACKETING FOR GROUTING

**03** FIBER-REINFORCED PRODUCTS WITH DUCTILE BEHAVIOR

**04** INSTALLATION OF JOINT DEVICES

**05** INTERVENTIONS ON INFRASTRUCTURES

## STRUTTURA BETON - BT 815 GF

Pack.: 25 kg bags in 75 kg kits (2 x 25 kg of comp. A + 25 kg of comp. B)  
Also available in Big Bag upon request



TWO-COMPONENT PRE-DOSED CEMENTITIOUS MORTAR WITH COMPENSATED SHRINKAGE, SUPERFLUID, REINFORCED WITH SYNTHETIC AND INORGANIC FIBERS TO ENSURE HIGH DURABILITY. DESIGNED FOR CONCRETE JACKETING AND RESTORATION, SUITABLE FOR SLAB APPLICATIONS IN THICKNESSES FROM 50 TO 100 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
21 kg per m <sup>2</sup> per cm thickness	50 ÷ 150 mm	≥ 70 MPa

## STRUTTURA BETON - BT 830

Pack.: 25 kg bags in 75 kg kits (2 x 25 kg of comp. A + 25 kg of comp. B)  
Also available in Big Bag upon request



TWO-COMPONENT PRE-DOSED CEMENTITIOUS MORTAR WITH COMPENSATED SHRINKAGE AND SUPERFLUID CONSISTENCY, REINFORCED WITH SYNTHETIC FIBERS TO ENSURE HIGH DURABILITY. IDEAL FOR CONCRETE JACKETING AND RESTORATION, SUITABLE FOR SLAB APPLICATIONS WITH THICKNESSES FROM 50 TO 100 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
21.2 kg per m <sup>2</sup> per cm thickness	50 ÷ 150 mm	≥ 70 MPa

**STRUTTURA****BETON - BT 840 SF**

Pack.: 25 kg bags in 75 kg kits (2 x 25 kg of comp. A + 25 kg of comp. B)  
Also available in Big Bag upon request



TWO-COMPONENT PRE-DOSED CEMENTITIOUS MORTAR WITH COMPENSATED SHRINKAGE AND SUPERFLUID CONSISTENCY, REINFORCED WITH METAL FIBERS TO ENSURE HIGH DURABILITY. IDEAL FOR CONCRETE JACKETING AND RESTORATION, SUITABLE FOR SLAB APPLICATIONS WITH THICKNESSES FROM 50 TO 100 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
21.5 kg per m <sup>2</sup> per cm thickness	50 ÷ 150 mm	≥ 75 MPa

**STRUTTURA****BETON - BT 855**

Pack.: 25 kg bags in 75 kg kits (2 x 25 kg of comp. A + 25 kg of comp. B)  
Also available in Big Bag upon request



TWO-COMPONENT PRE-DOSED CEMENTITIOUS MORTAR WITH COMPENSATED SHRINKAGE AND SUPERFLUID CONSISTENCY, REINFORCED WITH SYNTHETIC FIBERS TO ENSURE HIGH DURABILITY. IDEAL FOR CONCRETE JACKETING, RESTORATION, ANCHORING, AND DOWELLING, SUITABLE FOR APPLICATIONS WITH THICKNESSES FROM 50 TO 100 MM.

Average consumption	Thickness of application	Resistance to compression (28 days)
21.2 kg per m <sup>2</sup> per cm thickness	50 ÷ 150 mm	≥ 75 MPa



# STRUTTURA RASO FINO

Polymer-modified cementitious mortars with fine granulometry, reinforced with synthetic fibers, thixotropic, for repair and finishing of concrete and masonry elements.

The products of the **STRUTTURA RASO FINO** line meet the performance requirements of the European standard **EN 1504-3** and comply with the specifications indicated by the primary public and private specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**01** CONCRETE  
RECONSTRUCTION

**05** SPECIFIC PRODUCTS  
FOR INFRASTRUCTURES

### STRUTTURA RASO FINO - RF 114

25 kg bag - Pack./pallet: 60



POLYMER-MODIFIED, THIXOTROPIC CEMENTITIOUS PREMIXED MORTAR REINFORCED WITH SYNTHETIC FIBERS, DESIGNED FOR THE SMOOTHING AND PROTECTION OF CONCRETE AND MASONRY STRUCTURES. FINE-GRAIN FORMULATION, AVAILABLE IN WHITE AND GREY.

Average consumption	Thickness of application	Resistance to compression (28 days)
1.5 kg per m <sup>2</sup> per mm of thickness	1 ÷ 3 mm	≥ 13 MPa

### STRUTTURA RASO FINO - RF 226

25 kg bag - Pack./pallet: 60



MONO-COMPONENT, POLYMER-MODIFIED THIXOTROPIC CEMENTITIOUS PREMIXED MORTAR WITH SYNTHETIC FIBERS, DESIGNED FOR SMOOTHING CONCRETE AND MASONRY STRUCTURES. MEDIUM-GRAIN FORMULATION.

Average consumption	Thickness of application	Resistance to compression (28 days)
1.6 kg per m <sup>2</sup> per mm of thickness	1 ÷ 3 mm	≥ 25 MPa

**STRUTTURA****RASO FINO - RF 248**

25 kg bag - Pack./pallet: 60



MONO-COMPONENT, POLYMER-MODIFIED THIXOTROPIC CEMENTITIOUS PREMIXED MORTAR WITH SYNTHETIC FIBERS, DESIGNED FOR THE REPAIR AND SMOOTHING OF CONCRETE STRUCTURES. FINE-GRAIN FORMULATION.

Average consumption	Thickness of application	Resistance to compression (28 days)
1.5 kg per m <sup>2</sup> per mm of thickness	1 ÷ 3 mm	≥ 40 MPa

**STRUTTURA****RASO FINO - RF 323**

Comp. A: 25 kg bag – Pack./pallet: 60

Comp. B: 25 kg can

150 kg kit (5 x 25 kg of comp. A + 25 kg of comp. B INTEGRA SPECIAL LT 912)

Pack./pallet: 60



TWO-COMPONENT, POLYMER-MODIFIED THIXOTROPIC CEMENTITIOUS PREMIXED MORTAR WITH SYNTHETIC FIBERS, DESIGNED FOR SMOOTHING AND REPAIRING CONCRETE STRUCTURES. MEDIUM-GRAIN FORMULATION.

Average consumption	Thickness of application	Resistance to compression (28 days)
2.0 kg per m <sup>2</sup> per mm of thickness	3 ÷ 20 mm	≥ 40 MPa

# INTEGRA FERRO



Protective treatment for the passivation of metallic reinforcements.

**INTEGRA FERRO** complies with the performance requirements of the European standard **UNI EN 1504-7** and with the specifications outlined in the main public and private specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**01** CONCRETE  
RECONSTRUCTION

**05** INTERVENTIONS ON  
INFRASTRUCTURES

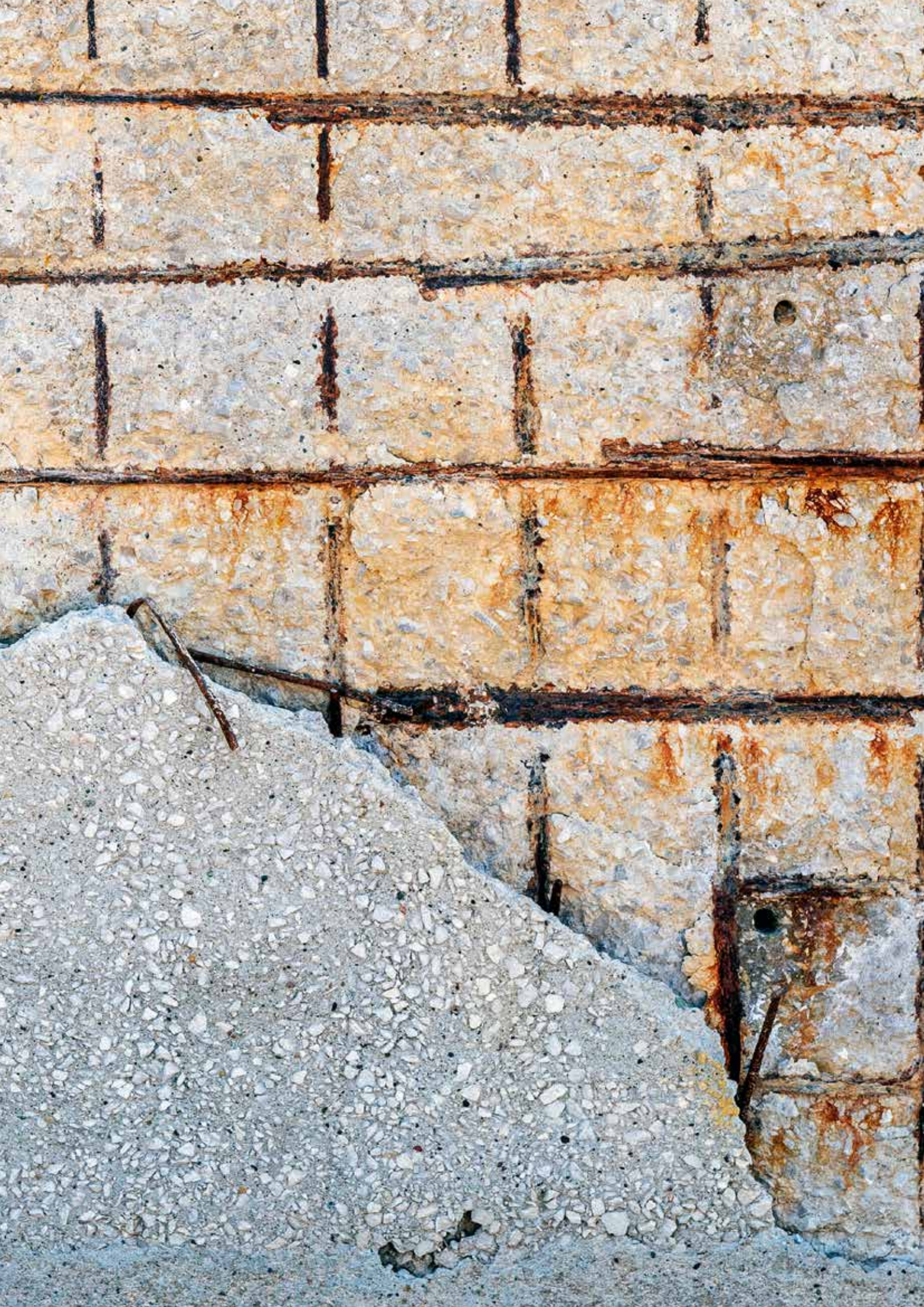
## INTEGRA FERRO - FR 718

5 kg bag - Pack./pallet: 72  
25 kg bag - Pack./pallet: 60

CEMENTITIOUS PASSIVATOR WITH CORROSION INHIBITOR FOR THE PROTECTION OF REINFORCEMENTS.

Average consumption	Mixing water
100 ÷ 250 g/m depending on the reinforcement diameter	24 ÷ 26%







# INTEGRA SPECIAL

Additives, aggregates, mineral additions, and complementary products.

## FIELDS OF APPLICATION

**01** CONCRETE  
RECONSTRUCTION

**04** INSTALLATION OF  
JOINT DEVICES

**05** INTERVENTIONS ON  
INFRASTRUCTURES

### INTEGRA SPECIAL - SRA 513

Pack. 5 kg / Pack. 20 kg

ANTI-SHRINKAGE CURING ADDITIVE FOR AIR CURING OF MORTARS, DRY CONCRETES, AND CONCRETE WITH COMPENSATED SHRINKAGE.

Average consumption	Appearance
1.0 % by weight of the mortar 0.5% by weight for mortars and concretes	Liquid transparent

### INTEGRA SPECIAL - RETARD 500

Pack. of 25 kg

RETARDING ADDITIVE FOR CEMENTITIOUS MORTARS AND GROUTS.



Dosage	Appearance
0.1 - 0.3% by weight of the mortar	Amber liquid

### INTEGRA SPECIAL - FAST 700

Pack. of 25 kg

SETTING AND HARDENING ACCELERATING ADDITIVE FOR CEMENTITIOUS MORTARS AND GROUTS.



Dosage	Appearance
0.5 - 1% by weight of the mortar 1 - 2% by weight of the binder	Amber liquid

### INTEGRA SPECIAL - QUICK AF 710

Pack. of 20 kg

ALKALI-FREE SETTING ACCELERATOR ADDITIVE FOR MORTARS, GROUTS, AND SPRAYED CONCRETES.



Dosage	Appearance
1.5 - 4% by weight of the mortar 3 - 8% by weight of the binder	Opaque liquid

## INTEGRA SPECIAL - LT 712

Pack. 7 kg

AQUEOUS EMULSION OF ACRYLIC COPOLYMERS FOR CEMENTITIOUS WATERPROOFING SYSTEMS.

Average consumption	Appearance
26-28% by weight of the mortar	Liquid white

## INTEGRA SPECIAL - LT 734

Pack. 5 kg / Pack. 20 kg

AQUEOUS POLYMER EMULSION, CONSOLIDANT FOR POROUS SUBSTRATES AND ADHESION PROMOTER FOR MORTARS.

Average consumption	Appearance
0.15 ÷ 0.25 kg/m <sup>2</sup>	White liquid

## INTEGRA SPECIAL - LT 912

Pack. 5 kg / Pack. 25 kg

AQUEOUS POLYMER EMULSION, COMPONENT B OF THE STRUTTURA TIXO-TX 351 AND RASO FINO - RF 323 MORTARS.

Average consumption	Appearance
18 ÷ 21% by weight of the mortar	White liquid



## INTEGRA SPECIAL - SL 800

Pack. A 2.5 kg + Pack. B 0.5 kg

**SUITABLE FOR THE INSTALLATION OF JOINT DEVICES**

TWO-COMPONENT EPOXY RESIN-BASED MORTAR, FLEXIBILIZED WITH RUBBER GRANULES, FOR THE REVERSIBLE FILLING OF ROAD JOINT SLOTS.

Average consumption	Appearance
1.17 kg/dm <sup>3</sup>	Black semi-fluid



## INTEGRA SPECIAL - SQ 0048 / SQ 0102

Pack. of 25 kg

Also available in Big Bag on request

SELECTED AND GRADED QUARTZ SAND TO BE USED WITH RESINS AND FRP REINFORCEMENT SYSTEMS.

Granulometry		Dosage
SQ 0048	SQ 0102	1 ÷ 3 kg/m <sup>2</sup>
0,4/0,8 mm	1,0/2,0 mm	



## INTEGRA SPECIAL - GH 0406 / GH 0610 / GH 1020

Pack. of 25 kg

Also available in Big Bag on request

NON-REACTIVE SELECTED AGGREGATE, WASHED AND CALIBRATED, FOR USE WITH MORTARS OF THE STRUTTURA LINE.

Granulometry			Dosage
GH0406 4/6 mm	GH0610 6/10 mm	GH1020 10/20 mm	20 ÷ 50 % on the weight of the mortar





# INTEGRA RIPRESA

Resins for shotcreting, injection, structural bonding, and anchoring of bars.

The products of the **INTEGRA RIPRESA** line comply with the performance requirements of the European standard **UNI EN 1504-4/-5/-6** and meet the specifications indicated in the main public and private specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**01** CONCRETE  
RECONSTRUCTION

**04** INSTALLATION  
OF JOINT DEVICES

**05** INTERVENTIONS  
ON INFRASTRUCTURES

### INTEGRA RIPRESA - RP 410

Pack. A 4 kg + Pack. B 2 kg / Pack. A 20 kg + Pack. B 10 kg

TWO-COMPONENT SUPERFLUID EPOXY RESIN FOR ANCHORING AND INJECTION IN CRACKED CONCRETE.



Consumption average	Appearance	Resistance to compression (7 days)
1.1 kg/dm <sup>3</sup>	Liquid yellowish	≥ 95 MPa

### INTEGRA RIPRESA - RP 415

Pack. A 5 kg + Pack. B 0.5 kg

TWO-COMPONENT FLUID EPOXY RESIN FOR STRUCTURAL BONDING, CASTING JOINTS, AND REINFORCEMENT ANCHORING.



Consumption average	Appearance	Resistance to compression (7 days)
1.4 kg/dm <sup>3</sup>	Fluid dense grey	≥ 90 MPa

**INTEGRA**  
**RIPRESA - RP 115**

Pack. A 2.95 kg + Pack. B 0.05 kg



**SUITABLE FOR THE INSTALLATION OF JOINT DEVICES**

TWO-COMPONENT RAPID FLUID ANCHOR BASED ON POLYESTER RESIN FOR ANCHORING BARS, STUDS, AND REINFORCEMENTS.

Consumption average	Appearance	Resistance to compression (7 days)
1.66 kg/dm <sup>3</sup>	Fluid dense grey	≥ 80 MPa

**INTEGRA**  
**RIPRESA - RP 460**

Pack. A 4 kg + Pack. B 1 kg



**SUITABLE FOR THE INSTALLATION OF JOINT DEVICES**

TWO-COMPONENT THIXOTROPIC EPOXY RESIN FOR STRUCTURAL ANCHORING AND BONDING OF CONCRETE, METAL, STONE, AND FOR FIXING WATERPROOFING MEMBRANES.

Consumption average	Appearance	Resistance to compression (7 days)
1.60 kg/dm <sup>3</sup>	Grey paste	≥ 70 MPa



# LEGO

Expansive and superfluid cementitious binders for the production of shrinkage-compensated concretes and mortars, including self-compacting concrete (SCC), for anchoring reinforcement bars, and for injections aimed at the consolidation of reinforced concrete and masonry.

Mortars for anchoring and filling in geotechnical applications.

The products of the **LEGO** line comply with the performance requirements set by the European standard **UNI EN 1504-6** and conform to the specifications indicated in the main public and private public specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**02** REPAIR AND JACKETING  
FOR GROUTING

**05** INTERVENTIONS ON  
INFRASTRUCTURES

### LEGO PLUS - LP 159

20 kg sack - Pack./pallet: 60  
Also available in Big Bag upon request



EXPANSIVE CEMENTITIOUS BINDER FOR THE PREPARATION OF SLURRIES, MORTARS, SCREEDS, AND CONCRETE WITH COMPENSATED SHRINKAGE.

Usage	Average consumption	Mixing water
Slurries for anchors and injections	1.52 kg/dm <sup>3</sup>	Approx. 32%
Mortar or concrete with compensated shrinkage	400 ÷ 550 kg/m <sup>3</sup>	Variable depending of the required granulometry and workability

### LEGO PLUS - LP 160

20 kg sack - Pack./pallet: 60  
Also available in Big Bag upon request



EXPANSIVE CEMENTITIOUS BINDER WITH SYNTHETIC FIBERS FOR THE PREPARATION OF SLURRIES, MORTARS, SCREEDS, AND CONCRETE WITH COMPENSATED SHRINKAGE.

Usage	Average consumption	Mixing water
Slurries for anchors and injections	1.50 kg/dm <sup>3</sup>	Approx. 30%
Mortar or concrete with compensated shrinkage	400 ÷ 550 kg/m <sup>3</sup>	Variable depending of the required granulometry and workability

**LEGO****PLUS - LP 161**

20 kg sack - Pack./pallet: 60  
 Also available in Big Bag upon request

EXPANSIVE CEMENTITIOUS BINDER WITH METALLIC FIBERS FOR THE PRODUCTION OF COMPENSATED SHRINKAGE CONCRETE AND SCREEDS.

Usage	Average consumption	Mixing water
Mortar or concrete fiber-reinforced with compensated shrinkage	420 ÷ 550 kg/m <sup>3</sup>	Variable depending of the required granulometry and workability

**LEGO****FLUID - LF 790**

20 kg sack - Pack./pallet: 60  
 Also available in Big Bag upon request



SUPERFLUID EXPANSIVE CEMENTITIOUS BINDER FOR THE PREPARATION OF COMPENSATED SHRINKAGE SELF-COMPACTING MORTARS AND CONCRETES.

Usage	Average consumption	Mixing water
Mortar or concrete self-compacting (SCC) with compensated shrinkage	450 ÷ 600 kg/m <sup>3</sup>	160 ÷ 210 kg/m <sup>3</sup>

**LEGO****TIXO - LT 650**

25 kg bag - Pack./pallet: 60  
 Also available in Big Bag upon request



SHRINKAGE-COMPENSATED PREMIXED CEMENTITIOUS MORTAR, THIXOTROPIC AND INJECTABLE, FOR TUNNEL ANCHORS AND STRUCTURAL FILLINGS.

Average consumption	Mixing water	Resistance to compression (28 days)
1.75 kg/dm <sup>3</sup>	19 ÷ 21%	≥ 50 MPa



# FIXA

Chemical anchors in cartridges based on vinylester, polyester, and epoxy resins for the structural fixing of bars, anchor bolts, and reinforcements in concrete, masonry, and wood. Products from the **INTEGRA FIXA** line are **CE** marked and **ETA** certified, with a service life of 50 to 100 years.

## FIELDS OF APPLICATION

**01** CONCRETE RE-CONSTRUCTION

**04** INSTALLATION OF JOINT DEVICES

**05** INTERVENTIONS ON INFRASTRUCTURES

### FIXA POLY 12

400 ml Cartridges - Pack./box: 12

**SUITABLE FOR THE INSTALLATION OF JOINT DEVICES**

RAPID-HARDENING POLYESTER CHEMICAL ANCHOR FOR THE STRUCTURAL FIXING OF BARS AND REINFORCEMENTS.



Average consumption
Variable depending on the geometry of the anchorage (see technical data sheet)



### FIXA VINYL 15

400 ml Cartridges - Pack./box: 12

**SUITABLE FOR THE INSTALLATION OF JOINT DEVICES**

VINYLESTER CHEMICAL ANCHOR WITH RAPID CURING FOR STRUCTURAL FASTENING OF BARS AND REINFORCEMENTS, ALSO UNDER SEISMIC RISK CONDITIONS.



Average consumption
Variable depending on the geometry of the anchorage (see technical data sheet)



### FIXA EPOXY 500

Cartridges of 585 ml - Pack./box: 12

**SUITABLE FOR THE INSTALLATION OF JOINT DEVICES**

HIGH-PERFORMANCE EPOXY CHEMICAL ANCHOR FOR STRUCTURAL FASTENING OF BARS AND REINFORCEMENTS, EVEN IN SEISMIC RISK CONDITIONS.



Average consumption
Variable depending on the geometry of the anchorage



## FIXA ACCESSORIES

### GUN - GU



**GU-400**  
Manual cartridge gun  
Single-component cartridges of 400 ml



**GU-470**  
Manual gun for two-component  
cartridges of 400/585 ml



**GU-600**  
Manual gun for two-component  
cartridges of 600 ml



**GU-400 PB**  
Battery-powered gun for cartridges  
Single-component cartridges of 400 ml



**GU-470 PB**  
Battery-powered gun for two-com-  
ponent cartridges of 400/585 ml



**GU-470 PN**  
Pneumatic gun for 400/585 ml  
two-component cartridges

### MESH SLEEVE - BU



**CODE BU**  
Galvanized mesh sleeve – length 100 cm  
CODE BU-12 Ø 12 mm – CODE BU-14 Ø 14 mm  
CODE BU-16 Ø 16 mm – CODE BU-22 Ø 22 mm

### CLEANING - SCV



**CODE SCV1**  
Brush for hole cleaning

### CLEANING - SFF



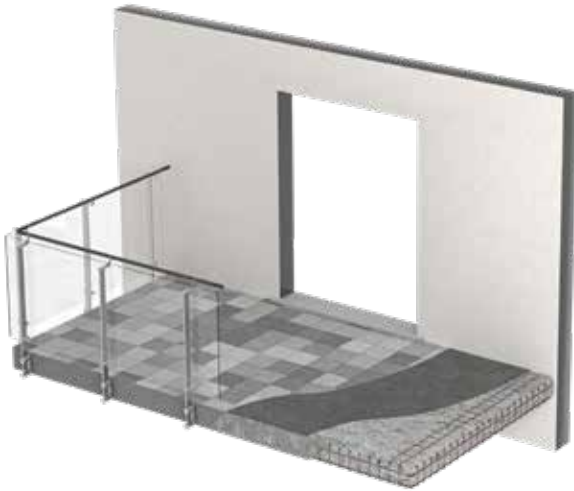
**CODE SFF1**  
Blowing pump for hole cleaning





# PROTECTION AND WATERPROOFING PRODUCTS

# PROTECTION AND WATERPROOFING PRODUCTS FIELDS OF APPLICATION



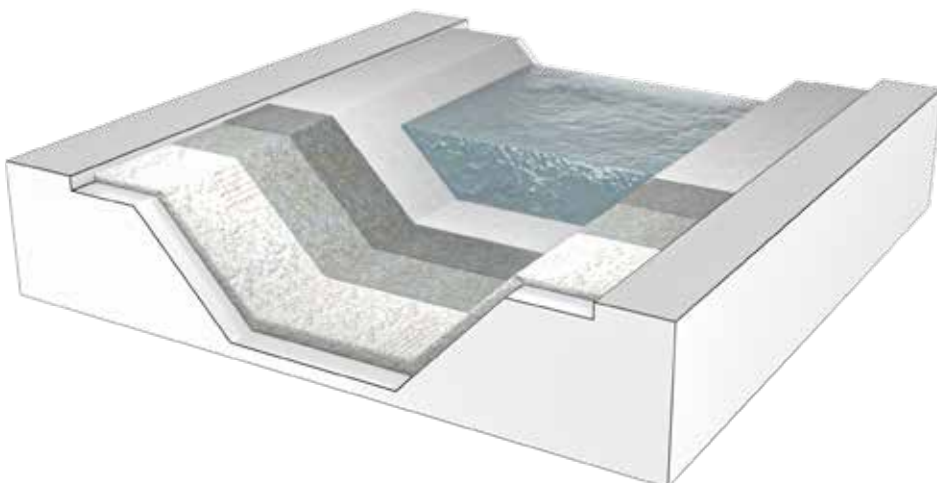
**01**

SOLUTIONS FOR CIVIL CONSTRUCTION



**02**

SOLUTIONS FOR INDUSTRIAL CONSTRUCTION



**03**

INTERVENTIONS ON HYDRAULIC WORKS



## 04 INTERVENTIONS ON INFRASTRUCTURES



### SCUDOCEM

Cement-based and polymer-modified waterproofing products for the protection of structures in concrete and masonry, ideal for the protection of tanks, foundations, slabs, balconies, retaining walls, channels, and hydraulic structures.



### PROTECTION

Protective coatings for concrete, featuring elastomeric behavior and high "crack bridging" properties; they ensure high resistance to carbonation and to the penetration of chlorides and aggressive agents, contributing to the durability of structures and protection of reinforcement.



# SCUDOCEM

Waterproofing coatings for concrete and masonry substrates with related system components. Products of the **SCUDOCEM** line comply with the performance requirements of the European standard **UNI EN 1504-2** and conform to the specifications indicated by major public and private specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**01** SOLUTIONS FOR CIVIL CONSTRUCTION

**02** SOLUTIONS FOR INDUSTRIAL CONSTRUCTION

**03** INTERVENTIONS ON HYDRAULIC WORKS

**04** INTERVENTIONS ON INFRASTRUCTURES

## SCUDOCEM

### GROUT - SC 300 RP

Pack. 5 kg

PREMIXED CEMENTITIOUS MORTAR WITH ULTRA-RAPID SETTING FOR WATERPROOF SEALING OF WATER INFILTRATIONS IN CONCRETE AND MASONRY STRUCTURES.

Average consumption	Setting time
1.9 kg/dm <sup>3</sup>	approx. 20 seconds at +20°C

## SCUDOCEM

### GROUT - SC 502

Pack. 25 kg

PREMIXED CEMENTITIOUS MORTAR WITH OSMOTIC ACTION AND HIGH CHEMICAL RESISTANCE FOR THE WATERPROOFING OF CONCRETE AND MASONRY STRUCTURES.



Average consumption	Recommended application thickness
1.6 kg/dm <sup>3</sup>	1 to 2 mm per layer

**SCUDOCEM**  
**GROUT - SC 601**

Pack. A 25 kg + Pack. B 8.75 kg

TWO-COMPONENT POLYMER-MODIFIED PREMIXED CEMENTITIOUS MORTAR FOR FLEXIBLE WATERPROOFING TREATMENT OF CONCRETE AND MASONRY STRUCTURES.



Average consumption	Recommended application thickness
1.6 kg/m <sup>2</sup> (A+B) for each mm of applied thickness	2 ÷ 3 mm

**SCUDOCEM**  
**GROUT - SC 603**

Pack. A 3 kg + Pack. B 3 kg + Pack. C 25 kg

THREE-COMPONENT THIXOTROPIC EPOXY-CEMENT MORTAR WITH HIGH RESISTANCE TO IMPACT AND ABRASION FOR WATERPROOF PROTECTION OF CONCRETE STRUCTURES.



Average consumption	Recommended application thickness
1.9 kg/m <sup>2</sup> (A+B) for each mm of applied thickness	2 ÷ 3 mm

**SCUDOCEM**  
**TAPE - ST 201 PF**

20 m rolls

HIGHLY DEFORMABLE, PREFORMED AND PERFORATED TAPE FOR WATERPROOFING CONSTRUCTION AND EXPANSION JOINTS.

Width	Thickness	Colour
Total 200 mm Usable 150 mm	1 mm	Grey

**SCUDOCEM**  
**BAND - SB 012 TP**

50 m rolls

WATERPROOFING STRIP IN THERMOPLASTIC ELASTOMER FOR WATERPROOFING AND SEALING EXPANSION JOINTS.

Width	Thickness	Colour
120 mm	0.66 mm	Grey



# PROTECTION

The coating cycles of the **PROTECTION** line provide an effective barrier against the penetration into concrete of aggressive substances present in the atmosphere or introduced under severe service conditions.

They comply with the requirements of European standard **UNI EN 1504-2** and conform to the specifications indicated by the primary public and private specifications for repair and maintenance works.

## FIELDS OF APPLICATION

**01** SOLUTIONS FOR CIVIL CONSTRUCTION

**02** SOLUTIONS FOR INDUSTRIAL CONSTRUCTION

**03** INTERVENTIONS ON HYDRAULIC WORKS

**04** INTERVENTIONS ON INFRASTRUCTURES

## PROTECTION HYDRO - H 40 W

Pack. 5 kg / Pack. 25 kg

PROTECTIVE WATER-REPELLENT IMPREGNATING AGENT BASED ON SILOXANE RESINS, FOR THE TREATMENT OF CONCRETE AND MASONRY STRUCTURES.

Average consumption	Appearance
100 ÷ 150 g/m <sup>2</sup>	Colorless liquid

## PROTECTION HYDRO - H 60 W

Pack. 5 kg / Pack. 25 kg

PROTECTIVE HYDROPHOBIC IMPREGNATING MIGRATING AGENT IN A GELATINOUS EMULSION BASED ON SILANE RESINS FOR THE TREATMENT OF CONCRETE STRUCTURES.

Average consumption	Appearance
300 ÷ 400 g/m <sup>2</sup>	Gelatinous emulsion

## PROTECTION FINISH - F 135 CEM

Pack. A 25 kg + Pack. B 8.75 kg

TWO-COMPONENT POLYMER-MODIFIED PREMIXED CEMENTITIOUS MORTAR, WATERPROOF AND FLEXIBLE, FOR THE PROTECTION AND LEVELING OF CONCRETE STRUCTURES.

Average consumption	Thickness of Recommended application
1.6 kg/m <sup>2</sup> (A+B) for each mm of applied thickness	2 ÷ 3 mm



## ELASTOMERIC ACRYLIC CYCLE

### PROTECTION

## PRIMER - P 105 AC FINISH - F 140 AC

PRIMER: Pack. of 20 kg / FINISH: Pack. of 20 kg



ELASTOMERIC ANTI-CARBONATION PROTECTIVE SYSTEM BASED ON ACRYLIC RESINS IN AQUEOUS DISPERSION, FOR THE TREATMENT OF CONCRETE STRUCTURES.

Product	Average consumption	Thickness of recommended application
PRIMER P 105 AC	100 ÷ 200 g/m <sup>2</sup>	Approx. 50 µm
FINISH F 140 AC	225 g/m <sup>2</sup> per 100 µm of dry film to be produced	200 ÷ 400 µm dry film

### PROTECTION

## FINISH - F 142 ACF

Pack. of 20 kg



COLORLESS PROTECTIVE COATING BASED ON ACRYLIC-SILANE-FLUORINATED RESINS IN AQUEOUS DISPERSION, CONSOLIDATING AND HYDRO-OLEOPHOBIC, FOR THE TREATMENT OF CONCRETE STRUCTURES. ALSO USABLE AS THE TOP-LAYER IN THE ELASTOMERIC CYCLE PROTECTION PRIMER – P105 AC + PROTECTION FINISH – F 140 AC.

Average consumption as a consolidant	Thickness of recommended application
100 ÷ 200 g/m <sup>2</sup>	Approx. 50 ÷ 200 µm

## METHACRYLIC CYCLE

### PROTECTION

## PRIMER - P 205 MC FINISH - F 240 MC

PRIMER: Pack. of 20 kg / FINISH: Pack. of 20 kg



ANTI-CARBONATION PROTECTIVE SYSTEM BASED ON ACRYLIC RESINS IN SOLVENT, FOR THE TREATMENT OF CONCRETE STRUCTURES.

Product	Average consumption	Thickness of recommended application
PRIMER P 205 MC	100 ÷ 200 g/m <sup>2</sup>	approx. 50 µm
FINISH F 240 MC	190 g/m <sup>2</sup> for every 100 µm of dry film to be applied	100 ÷ 200 µm dry film

**FOOD-GRADE EPOXY CYCLE**

**PROTECTION**

**PRIMER - P 302 EPW**  
**FINISH - F 320 EP**



PRIMER: Pack. A 10 kg + Pack. B 2 kg / FINISH: Pack. A 16 kg + Pack. B 4 kg.

FOOD-GRADE PROTECTIVE SYSTEM BASED ON SOLVENT-FREE EPOXY RESINS FOR THE TREATMENT OF CONCRETE AND MASONRY STRUCTURES.

Product	Average consumption	Thickness of recommended application
PRIMER P 302 EPW	100 ÷ 200 g/m <sup>2</sup>	approx. 50 µm
FINISH F 320 EP	190 g/m <sup>2</sup> for every 100 µm of dry film to be applied	100 ÷ 200 µm dry film

**ELASTOMERIC POLYURETHANE CYCLE**

**PROTECTION**

**PRIMER - P 405 EP**  
**FINISH - F 440 PU**



PRIMER - Pack A 10 kg + Pack B 2 kg / FINISH - Pack A 20 kg + Pack B 2 kg

ELASTOMERIC POLYURETHANE PROTECTIVE SYSTEM FOR THE TREATMENT OF CONCRETE ELEMENTS SUBJECT TO SEVERE ENVIRONMENTAL CONDITIONS. ALSO SUITABLE FOR THE PROTECTION OF BETONTEX REINFORCEMENT SYSTEMS EXPOSED TO UV RAYS.

Product	Average consumption	Thickness of recommended application
PRIMER P 405 EP	100 ÷ 200 g/m <sup>2</sup>	approx. 50 µm
FINISH F 440 PU	200 g/m <sup>2</sup> for every 100 µm of dry film to be applied	200 ÷ 400 µm dry film

## FLUORINATED ACRYL-POLYURETHANE CYCLE

### PROTECTION

**PRIMER - P 505 ACS**

**FINISH - F 530 PU**

**FINISH - F 540 FU**

PRIMER - Pack. 25 kg.

FINISH F 530 PU - Pack. A 12.5 kg + Pack. B 2 kg / FINISH F 540 FU - Pack. A 20 kg + Pack. B 2 kg.



BREATHABLE PROTECTIVE SYSTEM BASED ON POLYURETHANE RESINS WITH A HIGH-FLUORINE-CONTENT FINISH FOR THE PROTECTION OF CONCRETE ELEMENTS.

Product	Average consumption	Thickness of recommended application
PRIMER P 505 ACS	100 ÷ 200 g/m <sup>2</sup>	approx. 50 µm
FINISH F 530 PU	85 ÷ 170 g/m <sup>2</sup>	40 ÷ 85 µm dry film
FINISH F 540 FU	85 ÷ 160 g/m <sup>2</sup>	40 ÷ 80 µm dry film

## ELASTOMERIC EPOXY-BITUMINOUS CYCLE

### PROTECTION

**FINISH - F 640 EBW**

Pack. A 20 kg + Pack. B 1 kg



ELASTOMERIC PROTECTIVE COATING WITH HIGH CHEMICAL RESISTANCE, BASED ON EPOXY-POLYURETHANE AND BITUMEN IN AQUEOUS DISPERSION, FOR THE TREATMENT OF CONCRETE STRUCTURES.

Product	Average consumption	Thickness of recommended application
FINISH F 640 EBW	approx. 1.5 kg/m <sup>2</sup> per mm of thickness	approx. 2 mm





# GFRP SOLUTIONS FOR GEOTECHNICS



# G-TECH

## GFRP SOLUTIONS FOR GEOTECHNICS

In geotechnics, the use of fiberglass elements in the form of bars, tubes, or micropiles represents a versatile and reliable solution for temporary and permanent reinforcements, offering numerous advantages including lightness, high tensile strength, and electrical non-conductivity, making them also ideal for the maintenance of railway tunnels.

Their corrosion resistance ensures enhanced durability of structures, even when exposed to water, soil, and chemically aggressive environments.

Furthermore, the simple and rapid installation reduces both time and operational costs, providing an effective solution for the safety of underground works.

The fiberglass (GFRP) products in the G-TECH line are engineered for temporary or permanent reinforcements of tunnel excavation faces, underground structures, and, more broadly, soil stabilization. Distinguished by lightness and high tensile strength, they enable safe, rapid application with minimal environmental impact.

### GFRP PIPES FOR EXCAVATION FACE CONSOLIDATION

#### G-TECH P-VTR 60-40

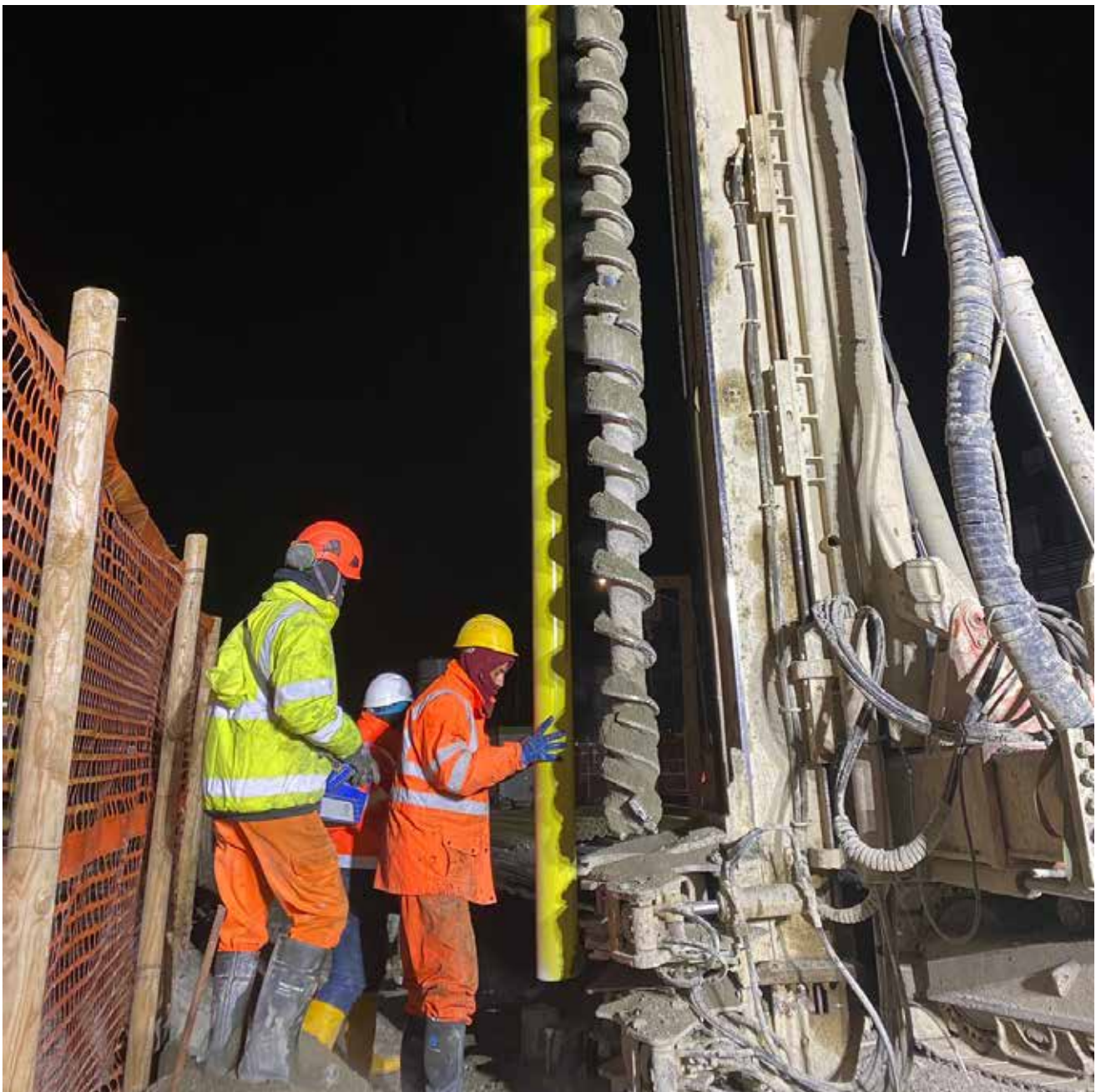


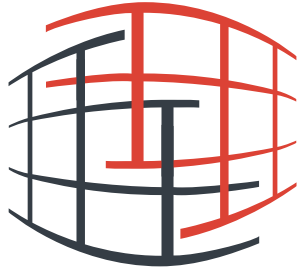
Product	Outer diameter	Inner diameter	Thickness	Tensile strength
P-VTR 60-40/400 F P-VTR 60-40/400 FV	60 mm	40 mm	10 mm	≥ 400 MPa
P-VTR 60-40/500 F P-VTR 60-40/500 FV				≥ 500 MPa
P-VTR 60-40/600 F P-VTR 60-40/600 FV				≥ 600 MPa
P-VTR 60-40/800 F P-VTR 60-40/800 FV				≥ 800 MPa

## GFRP PIPES FOR FOUNDATION WORKS

### G-TECH PTC

Product	Outer diameter	Inner diameter	Thickness	Tensile strength
PTC-D160X14S	160 mm	132 mm	14 mm	≥ 600 MPa
PTC-D200x184	200 mm	184 mm	8 mm	≥ 600 MPa
PTC-D200x180		180 mm	10 mm	
PTC-D200x176		176 mm	12 mm	





**FIBRE NET GROUP**





**FIBRE**  
**NET**  
composite engineering

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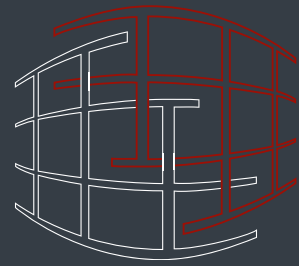
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#SENZAPHURANNI

LEA MARNE  
WIND TO DANCE WITH

11

ITA  
21



**FIBRE NET GROUP**



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