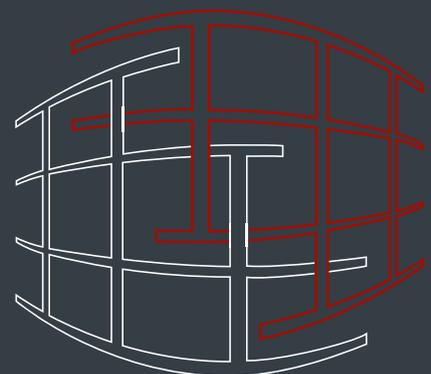


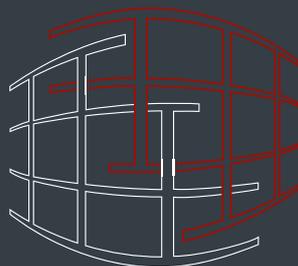


# Products and solutions for infrastructure



**FIBRE NET GROUP**

we give shape to your ideas  
safety to your projects





# INDEX

## 1. PRESENTATION

---

04	WHO WE ARE
06	ENGINEERING
07	RESEARCH
08	LABORATORIES
09	ASSISTANCE
10	PRODUCTION
11	CERTIFICATIONS

## 2. SYSTEMS AND SOLUTIONS FOR INFRASTRUCTURE MAINTENANCE

---

14	BRIDGES AND VIADUCTS_LIGHT DEGRADATION
15	BRIDGES AND VIADUCTS_MEDIUM / DEEP / VERY DEEP DEGRADATION
16	BRIDGES AND VIADUCTS_FRP REINFORCEMENT
17	JOINTS_SPECIAL PRODUCTS FOR JOINT DEVICES
18	TUNNELS_RESTORATION
19	TUNNELS_FRP REINFORCEMENT

## 3. PRODUCT LINES

---

24	PRODUCT LINE PRESENTATION
26	STRUTTURA_TIXO
28	STRUTTURA_FLUIDO
30	STRUTTURA_STEEL FLUID
32	STRUTTURA_BETON
34	STRUTTURA_RASO FINO
35	PROTECTION_PRIMER AND FINISH_ACRYLIC ELASTOMERIC CYCLE
36	PROTECTION_PRIMER AND FINISH_METHACRYLIC CYCLE
36	PROTECTION_PRIMER AND FINISH_ELASTOMERIC POLYURETHANE CYCLE
37	PROTECTION_PRIMER AND FINISH_ACRYL-POLYURETHANE-FLUORINATED CYCLE
38	INTEGRA_LEGO
40	INTEGRA_FERRO
42	INTEGRA_SPECIAL
44	INTEGRA_RIPRESA
46	INTEGRA_FIXA
48	ACQUA_SCUDO
50	RI-STRUTTURA_GFRP REINFORCEMENTS_PREFORMED MESHES
50	RI-STRUTTURA_GFRP REINFORCEMENTS_PREFORMED ANGLES
51	RI-STRUTTURA_GFRP REINFORCEMENTS_PREFORMED CONNECTORS
51	RI-STRUTTURA_GFRP REINFORCEMENTS_BARS
52	BETONTEX_FRP REINFORCEMENTS_CARBON FABRICS
54	BETONTEX_FRP REINFORCEMENTS_CARBON MESHES
55	BETONTEX_FRP REINFORCEMENTS_CARBON LAMINATES
56	BETONTEX_FRP REINFORCEMENTS_CARBON BARS AND CONNECTORS
58	BETONTEX_FRP REINFORCEMENTS_RESINS

## **4. GRP SOLUTIONS FOR GEOTECHNICS**

---

- 62 **PRESENTATION**
- 65 **G-TECH**\_GRP PIPES

## **5. TECHNICAL STRUCTURES AND FENCES IN GRP**

---

- 68 **PRESENTATION**
- 70 **P-TREX**\_GRP STRUCTURES
- 71 **P-TREX**\_GRP STRUCTURES\_LIGHTWEIGHT FRAMEWORKS
- 72 **P-TREX**\_GRP STRUCTURES\_COMPLEX STRUCTURES
- 74 **FIBREFENCE**\_TECHNICAL FENCES IN GRP

# FIBRE NET GROUP

*FIBRE NET GROUP is specialised in engineering, production, support, research and experimentation at the service of safety in the infrastructure world*

Founded as a company specializing in the production of composite materials for construction and for the infrastructure and industrial sectors, today FIBRE NET GROUP brings together engineering, production, and innovation expertise through its two brands:



Systems and products for the safety, reinforcement, and restoration of existing structures



Access, service, and containment structures of industrial and infrastructural sites in GRP



GRP perimeter and confinement fences for electrical and electromagnetic interference risk areas

Our professional and dimensional growth has paralleled our commitment to spreading the culture of innovative composite materials. Today we are recognized as a Group capable of offering complete and durable solutions in the restoration, reinforcement, and protection of infrastructures.

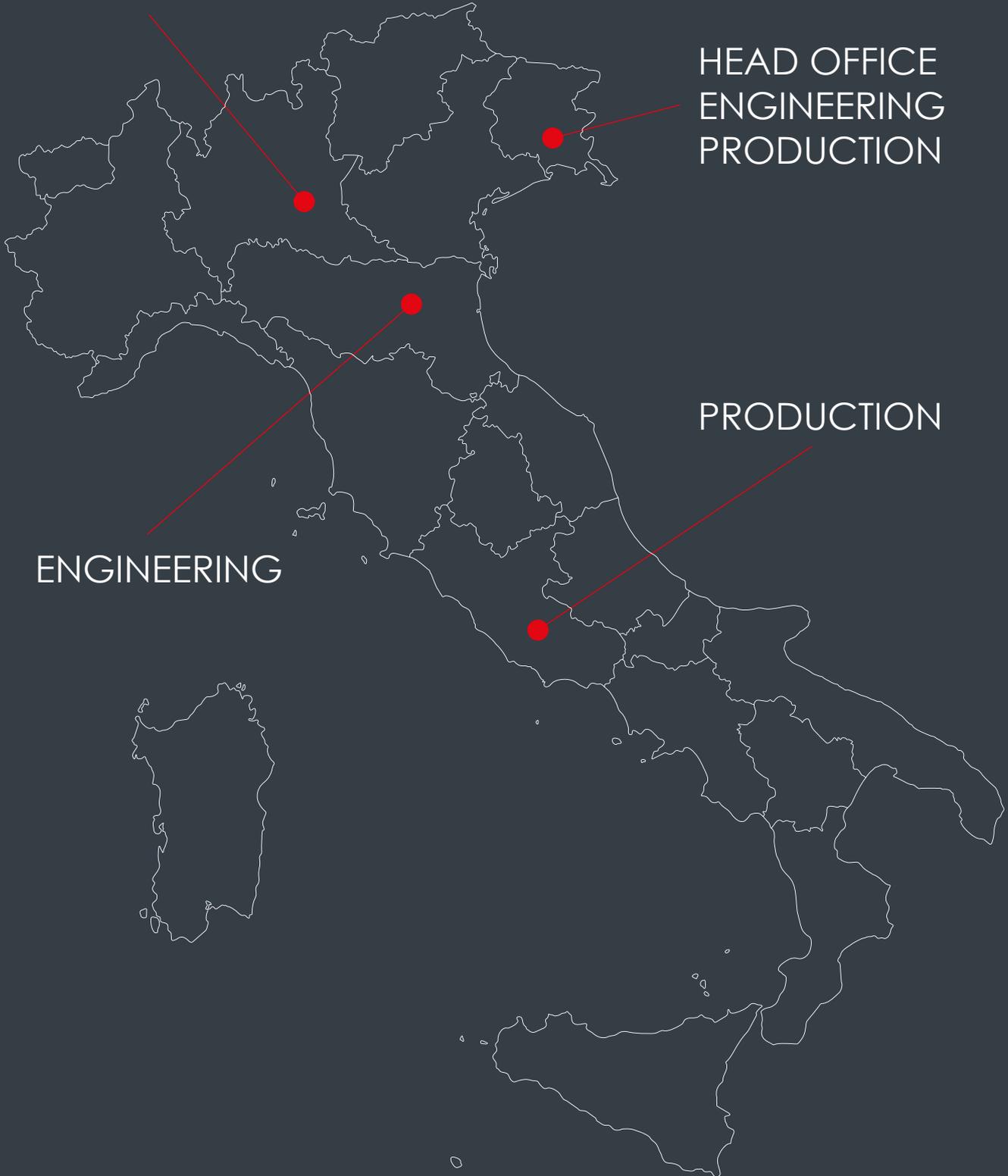




# FIBRE NET GROUP

PRODUCTION

HEAD OFFICE  
ENGINEERING  
PRODUCTION



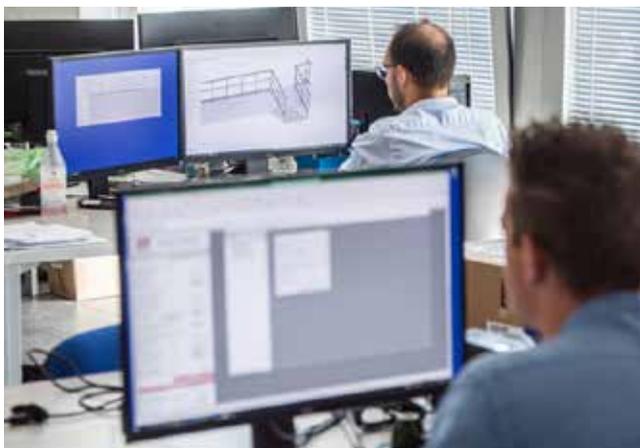
ENGINEERING

PRODUCTION

*A team of engineers leads several multidisciplinary teams highly qualified for design and project consultancy*

The advantage for the entity, the designer, and the company lies precisely in the integration between engineering skills and management capabilities that allow intervention on large-scale projects in the civil and infrastructural fields.

Our services? Technical assistance from design to contracting to on-site execution: feasibility analysis, structural design, intervention management optimisation, quality control, on-site testing, time and cost monitoring.



ENGINEERING

*Our strength: Research & Innovation*

*FIBRE NET has always been an innovative and constantly evolving company focused on the development of structural improvement solutions for the existent*

FIBRE NET GROUP conducts research and experimentation activities in cooperation with universities, research institutes and independent agencies. These synergies result in validation and certification activities for innovative products and solutions, as well as software and tools to assist designers and CM.



## FIBRE NET GROUP

*When we think of a new product or an innovative system, we do not limit ourselves to the typical application for which it was created, but we continue to test, analyze, and design to better understand the nature and potential of the innovation*

The FIBRE NET Study Center consists of multiple laboratories and areas dedicated to research; cutting-edge technologies and equipment are made available to partners for conducting tests, including on-site, for diagnosing issues, and for the mechanical and chemical characterization of materials and intervention cycles.



*A team of specialized technicians entirely dedicated to large-scale projects*

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



ASSISTANCE

*FIBRE NET produces systems for the restoration and consolidation of infrastructure works in compliance with the requirements requested by the main road and railway operators.*

For over 20 years, FIBRE NET SpA has been the “productive heart” in the architecture of the Group through the development, engineering, and production of composite systems and materials for structural reinforcement and seismic improvement, as well as mortars and technical products for the restoration and maintenance of artworks. Topics such as safety, performance improvement, and respect for the constructive characteristics of structures are the basis for the development of every FIBRE NET system and product.



**MORTARS, CONCRETE AND COATINGS  
PRODUCTS FOR RESTORATION,  
ANCHORING, WATERPROOFING,  
ADHESION AND PROTECTION STRUCTURAL  
Reinforcement SYSTEMS SYSTEMS FOR  
GEOTECHNICS**

**SERVICE  
STRUCTURES,  
ACCESS AND  
CONFINEMENT**

*FIBRE NET confirms itself as a reliable partner for the entire construction supply chain by offering innovative solutions developed with respect for environmental sustainability. The Group also stands out for its excellent financial and managerial performance*

FIBRE NET is committed to environmental sustainability through low-impact production processes, quality controls on products and processes, and the production of recyclable products. The ISO 9001 and ISO 14001 certifications attest to its commitment with controlled management of all production phases.



Certified company by SGS in accordance with ISO 9001:2015 standard



FIBRE NET has completed the process of evaluating the environmental impacts of its main products, in compliance with the ISO 14025 standard, for the development of Type III Environmental Labels and EPD documents.



The Group has been awarded for its financial and managerial performance with the High Honor of Budget Industry Felix. This recognition, along with the company's financial sustainability, makes it a reliable and competent partner for large contracts.



# Systems and solutions for infrastructure maintenance

# MINOR DETERIORATION

# BRIDGES AND VIADUCTS



<i>INTERVENTION</i>	<i>LINE</i>	<i>PRODUCTS</i>
<b>1</b> Restoration	<b>STRUTTURA</b>	- Restoration mortars
<b>2</b> Smoothing	<b>STRUTTURA</b>	- Smoothing mortars
<b>3</b> Protective systems	<b>ACQUA PROTECTION</b>	- Mortars for protection and waterproofing - Methacrylic cycle - Acrylic cycle - Polyurethane cycle - Acrylic-Polyurethane-fluorinated cycle

# MEDIUM, DEEP/VERY DEEP DETERIORATION



INTERVENTION	LINE	PRODUCTS
<b>1</b> Fixings and anchorings	<b>INTEGRA</b>	- Chemical anchors - Cementitious binders
<b>2</b> Bonding and casting joints	<b>INTEGRA</b>	- Bi-component adhesives
<b>3</b> Restoration	<b>STRUTTURA</b> <b>INTEGRA</b> <b>RI-STRUTTURA</b>	- Cementitious passivators - Fluid and superfluid mortars - Thixotropic mortars - Micro-concretes - Shrinkage-reducing additives - GFRP meshes - Cementitious binders
<b>4</b> Smoothing	<b>STRUTTURA</b>	- Smoothing mortars
<b>5</b> Protective systems	<b>ACQUA</b> <b>PROTECTION</b>	- Mortars for protection and waterproofing - Methacrylic cycle - Acrylic cycle - Polyurethane cycle - Acrylic-Polyurethane-fluorinated cycle

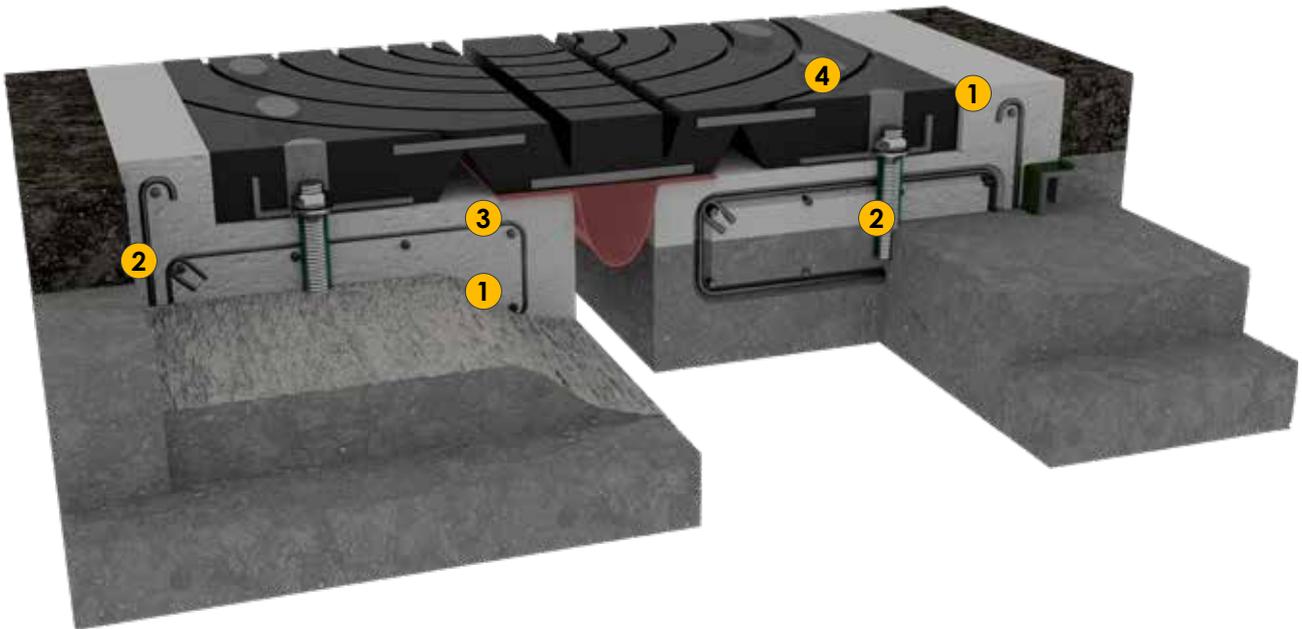
# FRP REINFORCEMENT

# BRIDGES AND VIADUCTS



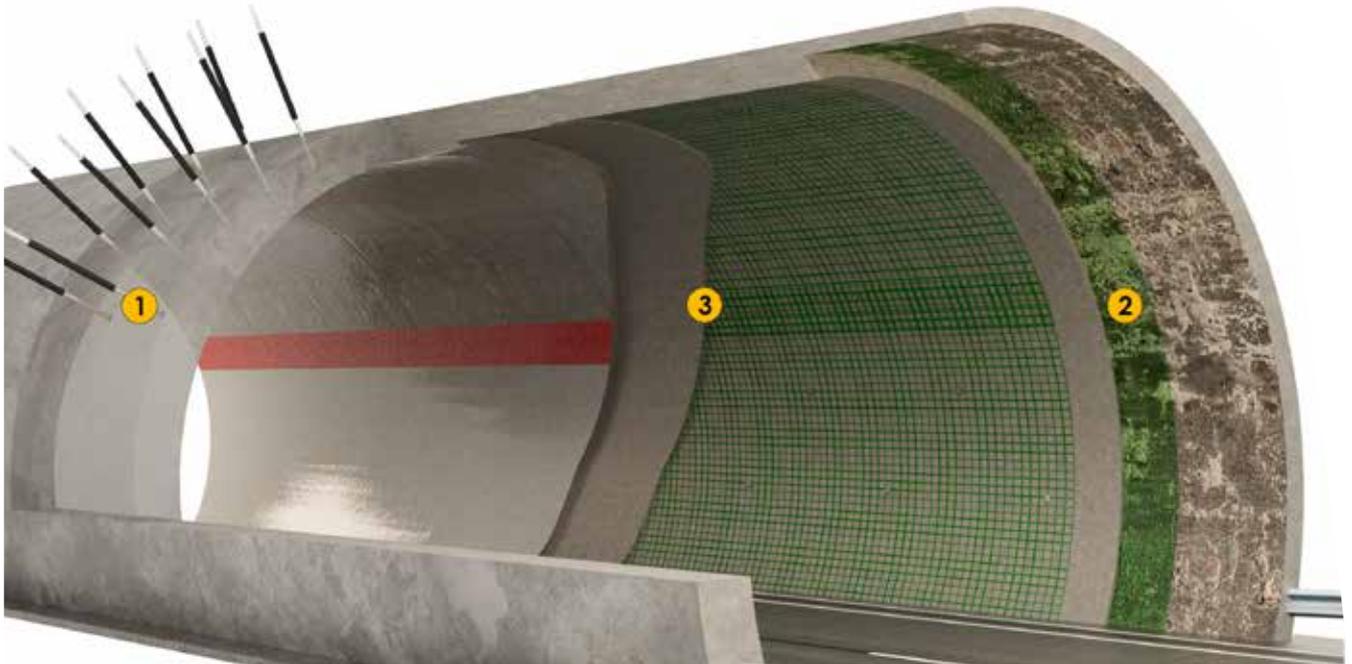
INTERVENTION	LINE	PRODUCTS
1 Support preparation	<b>STRUTTURA</b>	- Restoration mortars
2 FRP reinforcement	<b>BETONTEX</b> <b>RI-STRUTTURA</b>	- FRP fabrics - FRP meshes - FRP bars and bows - GFRP bars - FRP laminates - Adhesive-impregnation resins
3 Smoothing	<b>STRUTTURA</b>	- Mortars for restoration and smoothing
4 Protective systems	<b>ACQUA</b> <b>PROTECTION</b>	- Waterproofing agents - Polyurethane cycle - Acrylic-Polyurethane-fluorinated cycle

## SPECIAL PRODUCTS FOR JOINT DEVICES



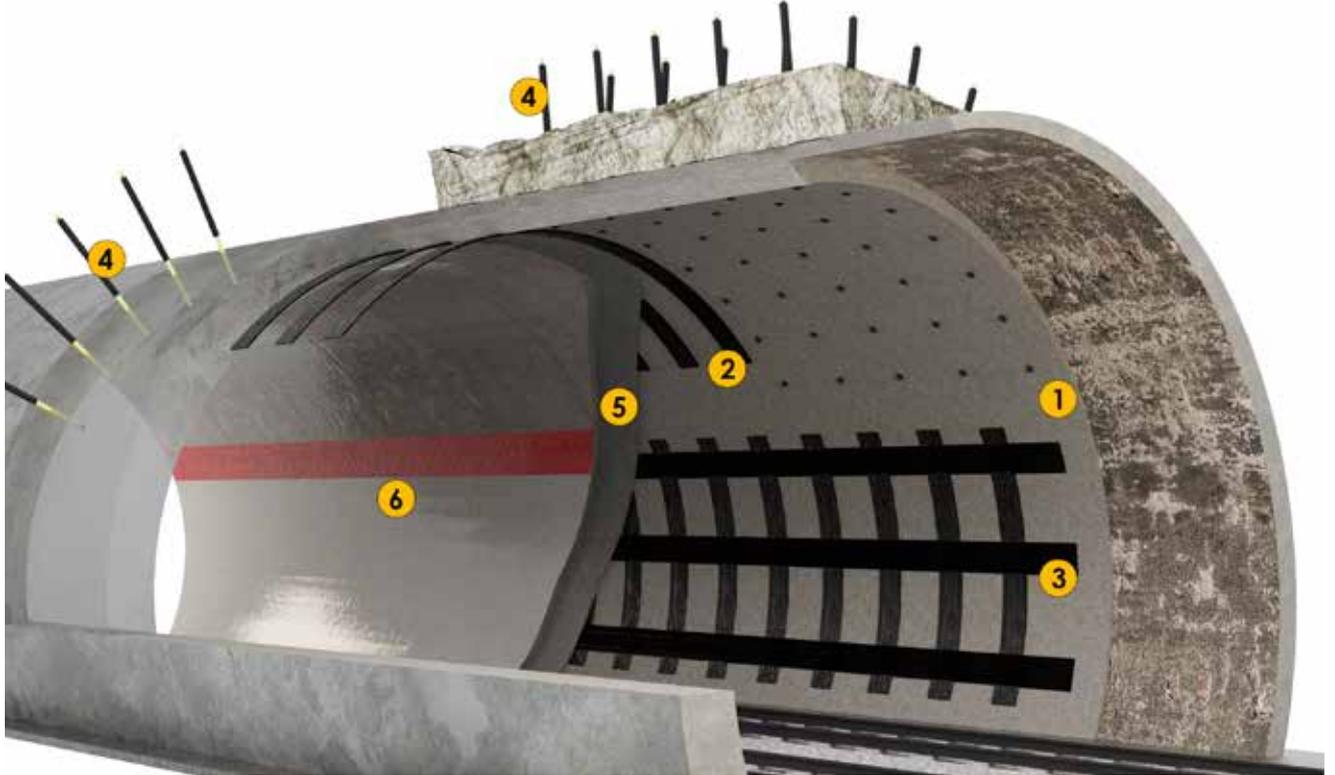
INTERVENTION	LINE	PRODUCTS
1 Reconstruction of heads and formation of screed	<b>STRUTTURA</b>	- Fiber-reinforced mortars with normal and rapid setting, even at low temperatures
2 Bar anchoring and anchor bolts	<b>INTEGRA</b>	- Formulations based on epoxy or polyester resins with normal and rapid setting
3 Bonding of the flashing and bedding of the joint	<b>INTEGRA</b>	- Bi-component thixotropic adhesive based on epoxy resins
4 Slot sealing	<b>INTEGRA</b>	- Bi-component fluid sealant compound, deformable, for reversible filling

# RESTORATION



INTERVENTION	LINE	PRODUCTS
<p><b>1</b> Fixings and filling</p>	<p><b>INTEGRA</b> <b>STRUTTURA</b></p>	<ul style="list-style-type: none"> <li>- Chemical anchors</li> <li>- Cementitious binders</li> <li>- Thixotropic anchoring mortars</li> <li>- Fluid mortars for filling</li> </ul>
<p><b>2</b> Bonding and casting joints</p>	<p><b>INTEGRA</b></p>	<ul style="list-style-type: none"> <li>- Bi-component adhesives</li> </ul>
<p><b>3</b> Restoration, reconstruction and thickening</p>	<p><b>RI-STRUTTURA</b> <b>INTEGRA</b> <b>STRUTTURA</b></p>	<ul style="list-style-type: none"> <li>- GFRP meshes</li> <li>- Shrinkage-reducing additives</li> <li>- Cementitious binders</li> <li>- Thixotropic mortars</li> <li>- Micro-concretes</li> </ul>

# FRP REINFORCEMENT



INTERVENTION	LINE	PRODUCTS
① Support preparation supporto	<b>STRUTTURA INTEGRA</b>	- Restoration mortars - Adhesion promoters
② ③ ④ FRP reinforcement	<b>BETONTEX RI-STRUTTURA</b>	- FRP fabrics - FRP meshes - FRP bars and bows - GFRP bars - FRP laminates - Adhesive-impregnation resins
⑤ Smoothing	<b>STRUTTURA</b>	- Mortars for restoration and smoothing
⑥ Protective systems	<b>PROTECTION</b>	- Polyurethane cycle - Acrylic-Polyurethane-fluorinated cycle







# Product lines

## A COMPLETE RANGE OF PRODUCTS FOR THE MAINTENANCE OF CONCRETE AND MASONRY INFRASTRUCTURES

For every restoration, consolidation, reinforcement, protection, anchoring, waterproofing, and safety intervention, FIBRE NET offers specialized solutions through products and systems that comply with the highest quality standards, certified and reliable.

### STRUTTURA

Shrinkage-compensated and polymer-modified mortars and concretes, reinforced with synthetic and inorganic fibers, thixotropic and pourable, with high durability, for surface, structural restorations and thickening of concrete elements.

Grouts and pourable mortars for anchoring.

Mortars and concretes reinforced with steel fibers, offering high mechanical performance with ductile and/or strain-hardening behavior.

Repair and finishing skim coats.



### INTEGRA

Special binders for producing shrinkage-compensated and SCC concrete, binders for consolidation injection grouts, rebar passivating treatments, shrinkage-reducing additives, acrylic and epoxy resins for construction joints, anchoring, and grouting



### PROTECTION

Coating cycles composed of primer and finishes for the protection of concrete elements.

Bi-component, elastic, waterproofing, and protective mortars.





## ACQUA

Cementitious mortars, pre-mixed, with the addition of special additives, rigid and elastic, for the protection and waterproofing of concrete elements and masonry at low thicknesses.



## RI-STRUETTURA

Structural reinforcement technique that involves the use of preformed glass fiber meshes, connectors, and accessories with thermosetting resins that are resistant to corrosion.



## BETONTEX

FRP system composed of fabrics and tapes in carbon fiber and epoxy resins for interventions of column confinement, shear and flexural reinforcement of beams, node confinement, flexural and/or shear reinforcement of slabs.



# STRUTTURA TIXO



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

The products of the **STRUTTURA TIXO** line meet the performance requirements requested by the European standard **EN 1504-3** for structural mortars of **Classe R4**, of **Type CC and PCC** and comply with the specifications indicated by the main public and private specifications for restoration and maintenance works of infrastructure.

## STRUTTURA TIXO - TX 251

25 kg bag - Packaging/pallet: 60



Structural cementitious mortar, polymer-modified, thixotropic, with synthetic fibers, for smoothing or repairing concrete elements in thicknesses from 4 to 50 mm.

Average consumption	Application thickness	Compressive strength (28 days)
17 kg per m <sup>2</sup> per cm of thickness	4 ÷ 50 mm	≥ 45 MPa

Render Scope of intervention

<b>02</b>	<b>Medium/deep/very deep degradation</b>	<b>3</b>
<b>05</b>	<b>Restoration</b>	<b>3</b>

## STRUTTURA TIXO - TX 259

25 kg bag - Packaging/pallet: 60



Structural, pre-mixed, polymer-modified, thixotropic cementitious mortar with synthetic fibers, for the restoration and repair of concrete structures.

Average consumption	Application thickness	Compressive strength (28 days)
18,4 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm per layer	≥ 50 MPa

Render Scope of intervention

<b>02</b>	<b>Medium/deep/very deep degradation</b>	<b>3</b>
<b>05</b>	<b>Restoration</b>	<b>3</b>

## STRUTTURA TIXO - TX 351

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

Cementitious mortar, structural, polymer-modified, thixotropic, bi-component with synthetic fibers for the restoration and repair of concrete structures. Mix with liquid component B.



Average consumption	Application thickness	Compressive strength (28 days)
21,0 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm per layer	≥ 55 MPa

Render Scope of intervention

02	Medium/deep/very deep degradation	3
03	FRP reinforcement	1
05	Restoration	3
06	FRP reinforcement	1

## STRUTTURA TIXO - TX 376

25 kg bag - Packaging/pallet: 60

Structural cementitious mortar, pre-mixed, thixotropic, air-expansive, with synthetic fibers, for the restoration and repair of concrete structures.



Average consumption	Application thickness	Compressive strength (28 days)
18,6 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm per layer	≥ 60 MPa

Render Scope of intervention

02	Medium/deep/very deep degradation	3
05	Restoration	3

## STRUTTURA TIXO - TX 468 SR

25 kg bag - Packaging/pallet: 60

Structural cementitious mortar, pre-mixed, thixotropic, air-expansive, with synthetic fibers, resistant to sulfates and aggressive agents, for the restoration and repair of concrete structures.



Average consumption	Application thickness	Compressive strength (28 days)
18,6 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm per layer	≥ 60 MPa

Render Scope of intervention

02	Medium/deep/very deep degradation	3
05	Restoration	3

## STRUTTURA TIXO - TX 500

25 kg bag - Packaging/pallet: 60

Pre-mixed, structural, thixotropic, air-expansive cementitious mortar with synthetic and inorganic fibers for the restoration and repair of concrete structures.



Average consumption	Application thickness	Compressive strength (28 days)
18,6 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm per layer	≥ 60 MPa

Render Scope of intervention

02	Medium/deep/very deep degradation	3
05	Restoration	3

# STRUTTURA FLUIDO



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

The products of the **STRUTTURA FLUIDO** line meet the performance requirements specified by European standards **EN 1504-6** for anchoring products and **EN 1504-3** for structural mortars of **Class R4**, of **Type CC**.

They also comply with the requirements indicated by the main public and private specifications for restoration and maintenance works of infrastructure.

## STRUTTURA FLUIDO - FL 469

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, superfluid with compensated shrinkage, pre-mixed and expansive in air, with synthetic and inorganic fibers, for the restoration of concrete elements.

Average consumption	Application thickness	Compressive strength (28 days)
20 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm	≥ 65 MPa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**

## STRUTTURA FLUIDO - FL 470

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, superfluid, pre-mixed and expansive in air, with compensated shrinkage, with synthetic fibers, for the restoration of concrete elements.

Average consumption	Application thickness	Compressive strength (28 days)
20,2 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm	≥ 75 MPa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**

## STRUTTURA FLUIDO - FL 475

Big bag of 1500 kg



Structural micro-concrete, single-component, superfluid, air-expansive, shrinkage-compensated with synthetic fibers, for the restoration of concrete elements.

Average consumption	Application thickness	Compressive strength (28 days)
20,5 kg per m <sup>2</sup> per cm of thickness	≥ 50 mm	≥ 70 MPa

Render Scope of intervention

02

Medium/deep/very deep degradation

3

## STRUTTURA FLUIDO - FL 179

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, superfluid, pre-mixed, shrinkage-compensated with synthetic fibers for precision anchoring, rebar grouting, and concrete restoration.

Average consumption	Application thickness	Compressive strength (28 days)
20 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm	≥ 70 MPa

## STRUTTURA FLUIDO - FL 170

Big bag of 1500 kg



Structural, single-component, superfluid concrete with compensated shrinkage, containing synthetic fibers, for anchoring reinforcements, precision grouting, and concrete restoration.

Average consumption	Application thickness	Compressive strength (28 days)
21 kg per m <sup>2</sup> per cm of thickness	≥ 50 mm	≥ 75 MPa

## STRUTTURA FLUIDO - FL 190 RP

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, superfluid, shrinkage-compensated with rapid mechanical performance development, for grouting, anchoring, restoration, and reinforcement of concrete elements, even at low temperatures.

Average consumption	Application thickness	Compressive strength (28 days)
20,5 kg per m <sup>2</sup> per cm of thickness	10 ÷ 50 mm	≥ 85 MPa



# STRUTTURA STEEL FLUID



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

The products of the **STRUTTURA STEEL FLUID** line meet the performance requirements specified by the European standard **EN 1504-3** for structural mortars of **Class R4**, of **Type CC** and comply with the prescriptions indicated by the main public and private specifications for the restoration and maintenance of infrastructure.

## STRUTTURA STEEL FLUID - SF 100

25 kg bag - Packaging/pallet: 60



### SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

Single-component, fluid, air-expansive structural mortar with rigid steel fibers, high ductility, and high mechanical performance for the restoration and reinforcement of concrete elements.

Average consumption	Application thickness	Compressive strength (28 days)
21 kg per m <sup>2</sup> per cm of thickness	10 ÷ 150 mm con armatura a partire da uno spessore di 50 mm	≥ 70 MPa

Render Scope of intervention

02	Medium/deep/very deep degradation	3
04	Special products for joint devices	1

## STRUTTURA STEEL FLUID - SF 100 RP

25 kg bag - Packaging/pallet: 60



### SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

Single-component, fluid, rapid-setting and hardening structural mortar with rigid steel fibers, high ductility, and high mechanical performance for the restoration and reinforcement of concrete elements.

Average consumption	Application thickness	Compressive strength (28 days)
20,5 kg per m <sup>2</sup> per cm of thickness	10 ÷ 150 mm con armatura a partire da uno spessore di 50 mm	≥ 90 MPa

Render Scope of intervention

04	Special products for joint devices	1
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**STRUTTURA**  
**STEEL FLUID - SF 100 IN**

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, fluid, air-expansive, with rigid steel fibers, high ductility and strain-hardening behavior, shrinkage-compensated and high mechanical performance, for the restoration and reinforcement of concrete elements.

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

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**



**STRUTTURA**  
**STEEL FLUID - SF 130 IN**

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, fluid, air-expansive, with rigid steel fibers, high ductility and strain-hardening behavior, shrinkage-compensated and high mechanical performance, for the restoration and reinforcement of concrete elements.

Average consumption	Application thickness	Compressive strength (28 days)
21 kg per m <sup>2</sup> per cm of thickness	10 ÷ 100 mm	≥ 130 MPa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**



**STRUTTURA**  
**STEEL FLUID - SF 130 IN-G**

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, fluid, air-expansive, with high ductility and strain-hardening behavior, shrinkage-compensated and high mechanical performance, for the restoration, thickening, reinforcement, and consolidation of concrete structures exposed to corrosive environments.

Average consumption	Application thickness	Compressive strength (28 days)
21 kg per m <sup>2</sup> per cm of thickness	10 ÷ 100 mm	≥ 130 MPa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**



**STRUTTURA**  
**STEEL FLUID - SF 130 IN-K**

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, fluid, with rigid steel fibers, high ductility and strain-hardening behavior, shrinkage-compensated and with very high mechanical performance, highly impermeable, for the restoration, thickening, reinforcement, and consolidation of concrete structures exposed to chemical attacks.

Average consumption	Application thickness	Compressive strength (28 days)
21 kg per m <sup>2</sup> per cm of thickness	10 ÷ 100 mm	≥ 130 MPa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**



# STRUTTURA BETON



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

The products of the **STRUTTURA BETON** line meet the performance requirements specified by European standards **EN 1504-6** for anchoring products and **EN 1504-3** for structural mortars of **Class R4**, of **Type CC** and comply with the specifications indicated by the main public and private specifications for restoration and maintenance works of infrastructure.

## STRUTTURA BETON - BT 815 GF

Packaging: 25 kg bags in a 75 kg kit (2 x 25 kg of comp. A + 25 kg of comp. B)  
Available upon request in Big Bag



Pre-dosed, bi-component, shrinkage-compensated, fiber-reinforced (synthetic and inorganic), superfluid, high-durability concrete for the restoration and repair of concrete structures.

Average consumption	Pot life of the mix	Compressive strength (28 days)
21,2 kg per m <sup>2</sup> per cm of thickness	60 min	≥ 70 Mpa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**

## STRUTTURA BETON - BT 830

Packaging: 25 kg bags in a 75 kg kit (2 x 25 kg of comp. A + 25 kg of comp. B)  
Available upon request in Big Bag



Pre-dosed, bi-component, shrinkage-compensated, fiber-reinforced (synthetic), superfluid, high-durability concrete for the restoration and repair of concrete structures.

Average consumption	Pot life of the mix	Compressive strength (28 days)
21,2 kg per m <sup>2</sup> per cm of thickness	60 min	≥ 70 Mpa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**

## STRUTTURA BETON - BT 840 SF

Packaging: 25 kg bags in a 75 kg kit (2 x 25 kg of comp. A + 25 kg of comp. B)  
Available upon request in Big Bag



Pre-dosed, bi-component, shrinkage-compensated, metal-fibre reinforced, superfluid, highly ductile concrete for the restoration and repair of concrete structures.

Average consumption	Pot life of the mix	Compressive strength (28 days)
21,5 kg per m <sup>2</sup> per cm of thickness	60 min	≥ 75 Mpa

Render Scope of intervention

**02** Medium/deep/very deep degradation  
**04** Special products for joint devices

**3**  
**1**

## STRUTTURA BETON - BT 855

Packaging: 25 kg bags in a 75 kg kit (2 x 25 kg of comp. A + 25 kg of comp. B)  
Available upon request in Big Bag



Pre-dosed, bi-component, shrinkage-compensated, synthetic-fibre reinforced, superfluid, highly durable concrete for reinforcement anchorage, precision grouting and for the restoration and repair of concrete structures.

Average consumption	Pot life of the mix	Compressive strength (28 days)
21,2 kg per m <sup>2</sup> per cm of thickness	60 min	≥ 75 Mpa

# STRUTTURA RASO FINO



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

The products of the **STRUTTURA RASO FINO** line meet the performance requirements of the European standard **EN 1504-3** for structural mortars of **Class R3** of **PCC Type** and comply with the specifications indicated by the main public and private specifications for infrastructure restoration and maintenance works.

## STRUTTURA RASO FINO - RF 248

25 kg bag - Packaging/pallet: 60



Structural mortar, single-component, pre-mixed, polymer-modified, with synthetic fibers for the restoration, smoothing, and finishing of concrete elements.

Average consumption	Application thickness	Compressive strength (28 days)
1,5 kg per m <sup>2</sup> per mm of thickness	1 ÷ 3 mm	≥ 40 MPa

Render Scope of intervention

01	Mild degradation	1 2
02	Medium/deep/very deep degradation	4
03	FRP reinforcement	3
06	Restoration	5

## STRUTTURA RASO FINO - RF 323

Comp. A: 25 kg bag - Pack./pallet: 60

Comp. B: 25 kg canister

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

Packaging/pallet: 60



Structural mortar, polymer-modified, bi-component, pre-mixed, shrinkage-compensated with synthetic fibers for the restoration and finishing of concrete elements. Mix with liquid component b.

Average consumption	Application thickness	Compressive strength (28 days)
20 kg per m <sup>2</sup> per cm of thickness	3 ÷ 20 mm	≥ 40 MPa

Render Scope of intervention

01	Mild degradation	1 2
02	Medium/deep/very deep degradation	4
03	FRP reinforcement	3
06	Restoration	5

# PROTECTION PRIMER-FINISH



The coating cycles of the **PROTECTION** line, composed of products of different chemical nature and developed to ensure excellent performance in any environmental exposure condition, constitute an effective barrier to the ingress of aggressive substances present in the atmosphere or introduced under severe usage conditions into the concrete.

They meet the requirements of the European standard **UNI EN 1504-2** and comply with the specifications indicated by the main public and private specifications for the restoration and maintenance of infrastructure.

## ELASTOMERIC ACRYLIC CYCLE

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

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



Film-forming coating based on acrylic elastomers in aqueous dispersion against the ingress of CO<sub>2</sub> and chlorides present in the atmosphere, featuring crack-bridging capability, suitable for the protection and finishing of aerial elements where micro-cracks are present or may appear during service. Standard Color RAL7032.

Product	Average consumption	Suggested application thickness
PRIMER P 105 AC	100 ÷ 200 g/m <sup>2</sup>	approx. 50 µm
FINISH F 140 AC	225 g/m <sup>2</sup> every 100 µm of dry film to be achieved	200 ÷ 400 µm of dry film

Render Scope of intervention

01	Mild degradation	3
02	Medium/deep/very deep degradation	5

## METHACRYLIC CYCLE

### PROTECTION

# PRIMER - P 205 MC FINISH - F 240 MC

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



Film-forming coating based on acrylic elastomers in aqueous dispersion against the ingress of CO<sub>2</sub> and chlorides present in the atmosphere, with crack-bridging capability, suitable for the protection and finishing of aerial elements where micro-cracks are present or may occur during operation. Standard colour RAL7032.

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

Render Scope of intervention

01	Mild degradation	3
02	Medium/deep/very deep degradation	5

## 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



Film-forming coating of epoxy-polyurethane nature against the ingress of CO<sub>2</sub> and chlorides even in the presence of freeze-thaw cycles, with "crack-bridging" capacity, suitable for the protection and finishing of aerial elements subject to severe environmental conditions and frequent contact with water containing de-icing salts and where micro-cracks are present or may appear during operation. Also suitable for the protection of BETONTEX reinforcement systems exposed to sunlight.

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

Render Scope of intervention

01	Mild degradation	3
02	Medium/deep/very deep degradation	5
03	FRP reinforcement	5
06	FRP reinforcement	6

## ACRYLIC-POLYURETHANEFLUORINATED CYCLE

### PROTECTION

# PRIMER - P 505 ACS FINISH - F 530 PU FINISH - F 540 FU



PRIMER - Pack of 25 kg

FINISH F 530 PU - Pack of A 12,5 kg + Pack of B 2 kg / FINISH F 540 FU - Pack of A 20 kg + Pack of B 2 kg

Film-forming coating based on acrylic elastomers in aqueous dispersion against the ingress of CO<sup>2</sup> and chlorides present in the atmosphere, with crack-bridging capability, suitable for the protection and finishing of aerial elements where micro-cracks are present or may occur during operation. Standard colour RAL7032.

Product	Average consumption	Suggested application thickness
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 of dry film
FINISH F 540 FU	85 ÷ 160 g/m <sup>2</sup>	40 ÷ 80 µm of dry film

Render Scope of intervention

- 01** Mild degradation
- 02** Medium/deep/very deep degradation
- 03** FRP reinforcement





# INTEGRA LEGO

Expansive and superfluid cementitious binders for the preparation of shrinkage-compensating concrete and SCC, for rebar anchoring, and for consolidation injections in reinforced concrete and masonry. Mortars for anchoring and filling in geotechnical applications.

The products of the **INTEGRA LEGO** line meet the performance requirements of the European standard **UNI EN 1504-6** and comply with the specifications indicated by the main public and private specifications for infrastructure restoration and maintenance works

## INTEGRA LEGO PLUS - LP 159

20 kg bag - Pack./pallet: 60  
Available upon request in Big Bag



Expansive cementitious binder for the preparation of grouts, mortars, micro-concretes, and shrinkage-compensated concretes.

Product	Average consumption	Mixing water
Grouts for anchoring and injections	1,52 kg/dm <sup>3</sup>	approx. 32%
Shrinkage-compensated micro-concrete or concrete	400 ÷ 550 kg/m <sup>3</sup>	variable depending on the granulometry and the required workability

Render Scope of intervention

02	Medium/deep/very deep degradation	1 3
05	Restoration	1 3

## INTEGRA LEGO PLUS - LP 160

20 kg bag - Pack./pallet: 60  
Available upon request in Big Bag



Expansive cementitious binder reinforced with inorganic fibers for the preparation of grouts, mortars, micro-concretes, and shrinkage-compensated concretes.

Product	Average consumption	Mixing water
Grouts for anchoring and injections	1,50 kg/dm <sup>3</sup>	approx. 30%
Shrinkage-compensated micro-concrete or concrete	400 ÷ 550 kg/m <sup>3</sup>	variable depending on the granulometry and the required workability

Render Scope of intervention

02	Medium/deep/very deep degradation	1 3
05	Restoration	1 3

## INTEGRA LEGO FLUID - LF 790

20 kg bag - Pack./pallet: 60  
Available upon request in Big Bag

Cementitious, superfluid, and expansive binder for the preparation of shrinkage-compensated self-compacting concrete (SCC) for consolidation injections in reinforced concrete and masonry structures.

Product	Average consumption	Mixing water
Shrinkage-compensated self-compacting concrete (SCC)	450 ÷ 600 kg/m <sup>3</sup>	160 ÷ 210 kg/m <sup>3</sup>

Render Scope of intervention

**02** Medium/deep/very deep degradation  
**05** Restoration

3

3

## INTEGRA LEGO TIXO - LT 650

25 kg bag - Packaging/pallet: 60  
Available on request also in Big Bag



Fine thixotropic compensated shrinkage cementitious grout, injectable, for tunnel anchoring and structural fillings.

Average consumption	Mixing water	Compressive strength (28 days)
1,75 kg/dm <sup>3</sup>	19 ÷ 21%	≥ 50 MPa

Render Scope of intervention

**05** Restoration

1



# INTEGRA FERRO

Protective treatments for the passivation of metal reinforcements.

The products of the **INTEGRA FERRO** line meet the performance requirements of the European standard **UNI EN 1504-7** and comply with the specifications indicated by the main public and private specifications for infrastructure restoration and maintenance works.

## INTEGRA FERRO - FR 718

5 kg bag - Packaging/pallet: 72  
25 kg bag - Packaging/pallet: 60



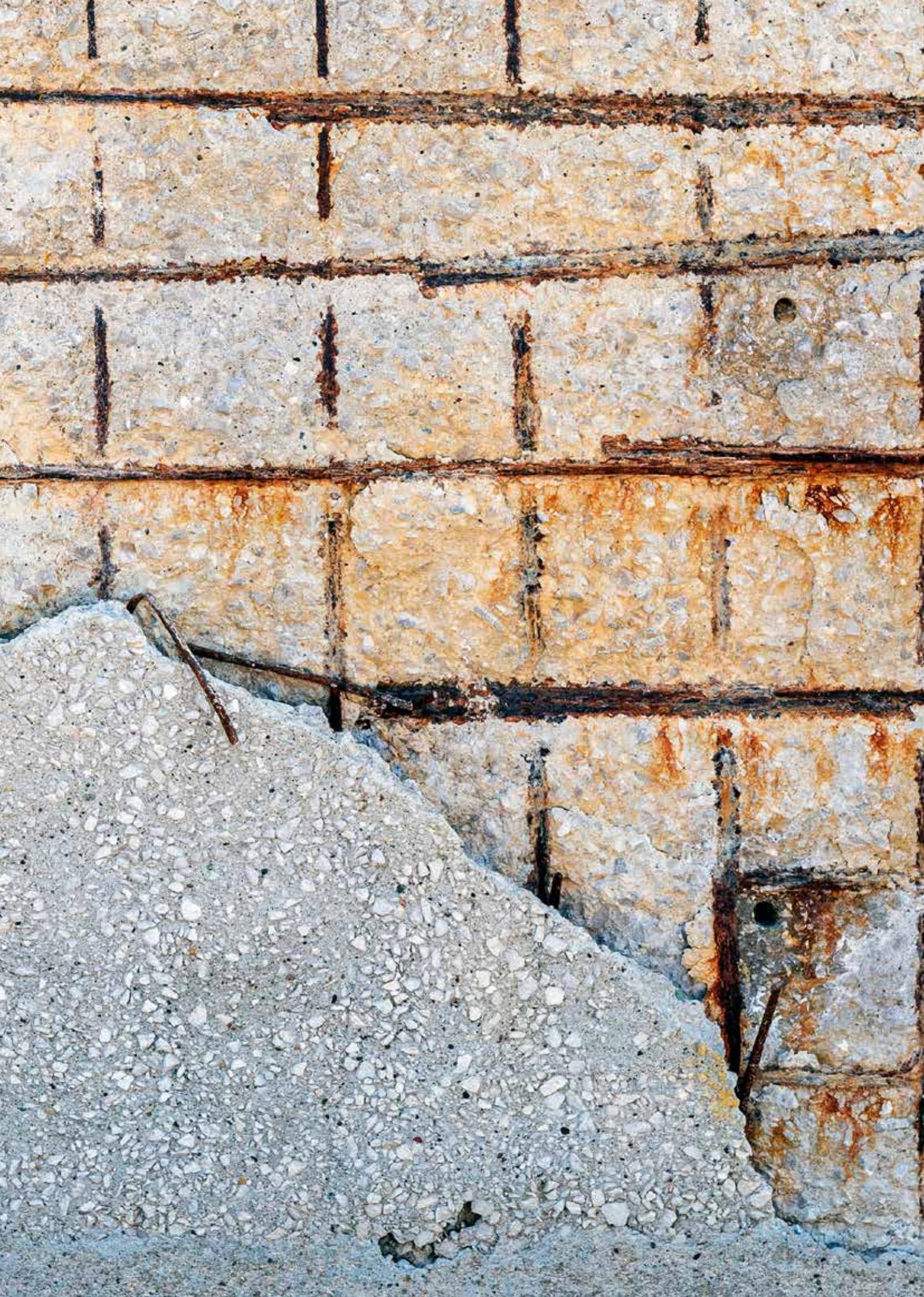
Single-component cementitious passivator, with corrosion inhibitors, polymer-modified, for the protection of reinforcements.

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

Render Scope of intervention

**02** Medium/deep/very deep degradation

**3**





# INTEGRA SPECIAL

Polymeric additives, mineral additions, and complementary products.

## INTEGRA SPECIAL - SRA 513

5 kg pack / 15 kg pack

Shrinkage-reducing curing additive for air curing of mortars, micro-concretes, and shrinkage-compensated concretes.

Average consumption	Appearance
1.0 % by weight for mortars 0,5 % by weight for micro-concretes and concretes	Transparent liquid

Render Scope of intervention

<b>02</b>	<b>Medium/deep/very deep degradation</b>	<b>3</b>
<b>05</b>	<b>Restoration</b>	<b>3</b>

## INTEGRA SPECIAL - LT 734

Pack of 5 kg / Pack of 20 kg

Adhesion promoter based on polymers in aqueous dispersion.

Average consumption	Appearance
0,15 ÷ 0,25 kg/m <sup>2</sup>	White liquid

Render Scope of intervention

<b>01</b>	<b>Mild degradation</b>	<b>1</b>
<b>02</b>	<b>Medium/deep/very deep degradation</b>	<b>3</b>
<b>05</b>	<b>Restoration</b>	<b>3</b>

# INTEGRA SPECIAL - LT 912

Pack of 5 kg / Pack of 25 kg

Liquid component of STRUTTURA TIXO - TX 351 and RASO FINO - RF 323 mortars.

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

Render Scope of intervention

01	Mild degradation	1 2
02	Medium/deep/very deep degradation	3 4
03	FRP reinforcement	1 3
05	Restoration	3
06	FRP reinforcement	1 5

# INTEGRA SPECIAL - GH 0406 GH 0610 GH 1020

Pack of 25 kg  
Available on request  
also in Big Bag



Selected non-reactive aggregate, washed and calibrated, for use with STRUTTURA line mortars.

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

Render Scope of intervention

02	Medium/deep/very deep degradation	3
04	Special products for joint devices	1
05	Restoration	3

# INTEGRA SPECIAL - SL 800

Pack of A 2,5 kg + Pack of B 0,5 kg



**SUITABLE FOR THE INSTALLATION OF JOINT DEVICES**

Epoxy resin-based bi-component mortar, flexibilized with the addition of rubber granules, for the reversible filling of road joint slots.

Average consumption	Appearance
1,17 kg/dm <sup>3</sup>	Semifluido nero

Render Scope of intervention

04	Special products for joint devices	4
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# INTEGRA RIPRESA

Resins for jointing, structural bonding, fixing, and anchoring of bars.

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

## INTEGRA RIPRESA - RP 410

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



Superfluid bi-component adhesive based on epoxy resins for consolidation injection on cracked structures.

Average consumption	Appearance	Compressive strength (7 days)
1,1 kg/dm <sup>3</sup>	liquid yellowish	≥ 70 MPa

Render Scope of intervention

02	Medium/deep/very deep degradation	2
05	Restoration	2

## INTEGRA RIPRESA - RP 415

Pack of A 5 kg + Pack of B 0,5 kg



Fluid bi-component adhesive based on epoxy resins for casting joints, bar anchoring, and monolithic sealing of cracks.

Average consumption	Appearance	Compressive strength (7 days)
1,4 kg/dm <sup>3</sup>	fluid dense gray	≥ 90 MPa

Render Scope of intervention

02	Medium/deep/very deep degradation	2
04	Special products for joint devices	2
05	Restoration	2

# INTEGRA RIPRESA - RP 115

Package A 2.95 kg + Package B 0.05 kg



## SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

Fast-setting bi-component fluid anchor, based on styrene-free polyester resin for anchoring bars, bolts, dowels, and reinforcements. Suitable for application on dry or wet substrates, even in case of low ambient temperatures.

Average consumption	Appearance	Compressive strength (7 days)
1,65 kg/dm <sup>3</sup>	fluid dense gray	≥ 70 MPa

Render Scope of intervention

**04** Special products for joint devices

**2**



# INTEGRA RIPRESA - RP 460

Package A 4 kg + Package B 1 kg



## SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

Thixotropic bi-component adhesive based on epoxy resins, for structural bonding of concrete, metal, and stone, and for fixing waterproof tapes. Suitable for leveling and small repairs of concrete elements.

Average consumption	Appearance	Compressive strength (7 days)
1,60 kg/dm <sup>3</sup>	gray paste	≥ 50 MPa

Render Scope of intervention

**01** Mild degradation

**1 2**

**02** Medium/deep/very deep degradation

**2**

**03** FRP reinforcement

**1**

**04** Special products for joint devices

**3**

**05** Restoration

**2**

# INTEGRA FIXA



Chemical anchors in cartridges based on vinylester, polyester, and epoxy for fixing rebars, bolts, and reinforcements in concrete and masonry.

The products of the **INTEGRA FIXA** line are equipped with **CE** marking and **ETAG** certifications.

## INTEGRA FIXA - POLY 12

400 ml cartridges - Pack/box: 12

### SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

Fast-setting bi-component chemical anchor in a cartridge based on styrene-free polyester resin for fixing bars, anchor bolts, dowels, and reinforcements. Suitable for medium and heavy loads and application on dry or wet substrates, even at low temperatures.



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



Render Scope of intervention

**04** Special products for joint devices

**2**

## INTEGRA FIXA - VINYL 15

400 ml cartridges - Pack/box: 12

### SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

Fast-setting bi-component chemical anchor in a cartridge based on styrene-free vinylester resin for fixing bars, anchor bolts, dowels, and reinforcements. Suitable for medium and heavy loads and application on dry, wet, or submerged substrates, even at low temperatures.



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



Render Scope of intervention

**02** Medium/deep/very deep degradation

**1**

**05** Restoration

**1**

# INTEGRA FIXA - EPOXY 25

470 ml cartridges - Pack/box: 12  
900 ml cartridges - Pack/box: 6



## SUITABLE FOR THE INSTALLATION OF JOINT DEVICES

Bi-component chemical anchor in a cartridge based on epoxy resin for fixing bars, anchor bolts, dowels, and reinforcements. Suitable for medium and heavy loads, application on dry, damp, or wet substrates, for seismic actions of category C2.

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



Render Scope of intervention

04	Special products for joint devices
02	Medium/deep/very deep degradation
05	Restoration



## INTEGRA ACCESSORIES

### GUN - GU

- Manual injection gun for 400 ml cartridges. To be used with POLY12 - VINYL 15 - VINYL 15 HT - VINYL 15 LT
- Manual injection gun for 470 ml cartridges. To be used with EPOXY 25
- Manual injection gun for 600 ml cartridges. To be used with RC30/3
- Pneumatic injection gun for 400 ml cartridges. To be used with POLY12 - VINYL 15 - VINYL 15 HT - VINYL 15 LT
- Pneumatic injection gun for 470 ml cartridges. To be used with EPOXY 25
- Pneumatic injection gun for 900 ml cartridges. To be used with EPOXY 25
- Pneumatic injection gun for 900 ml cartridges. To be used with EPOXY 25

### BUSH - BU

Galvanized mesh bush DN 12/14/16/22 mm for drilled, length 100 cm

### BRUSH - SCV

Brush for cleaning holes

### CLEANING - SFF

Blower pump for hole cleaning



# ACQUA SCUDO

Waterproof coatings and system accessories for concrete and masonry substrates.

The products of the **ACQUA SCUDO CEM** line meet the performance requirements specified by the European standard **UNI EN 1504-2** and comply with the prescriptions indicated by the main public and private specifications for infrastructure restoration and maintenance works.

## ACQUA SCUDO CEM - SC 601

Package A 25 kg + Package B 8.75 kg



Bi-component, polymer-modified, thixotropic cementitious mortar used for waterproofing concrete or masonry surfaces. Also usable on substrates subject to cracking due to high flexibility (crack bridging ability of class A4).

Average consumption	Application thickness
1,6 kg/m <sup>2</sup> (A+B) for each mm of applied thickness	2 ÷ 3 mm

Render Scope of intervention

01	Mild degradation	3
02	Medium/deep/very deep degradation	5
03	FRP reinforcement	4

## ACQUA SCUDO CEM - SC 603

Package A 3 kg + Package B 3 kg + Package C 25 kg



Three-component epoxy-cementitious mortar for the protection and waterproofing of reinforced concrete structures. Usable for applications on horizontal and vertical surfaces, resistant to the laying of hot-applied bituminous membranes.

Average consumption	Application thickness
1,9 kg/m <sup>2</sup> (A+B+C) for each mm of applied thickness	2 ÷ 3 mm

Render Scope of intervention

01	Mild degradation	3
02	Medium/deep/very deep degradation	5

**ACQUA**

## SCUDO TAPE - ST 201 PF

20m Rolls



Highly deformable preformed and perforated tape for waterproofing construction and expansion joints.

Width	Thickness	Color
Total 200mm Useful 150 mm	1 mm	Gray

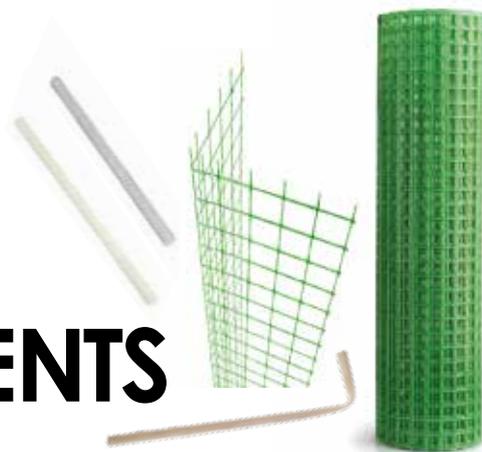
**ACQUA**

## SCUDO BAND - SB 012 TP

50m Rolls

Elastic waterproofing tape made of special polyester fabric coated with thermoplastic elastomer.

Width	Thickness	Color
120 mm	0,66 mm	Gray



# RI-STUTTURA GFRP REINFORCEMENTS

Preformed elements and accessories made of fiberglass and thermosetting resins insensitive to corrosion, usable in the structural reinforcement of masonry with the CRM System and as auxiliary reinforcement in concrete restoration works.



## PREFORMED MESHES

**RI-STUTTURA**

**FBMESH66X66T192AR**  
**FBMESH99X99T192AR**  
**FBMESH132X132T192AR**



Packaged in rolls of 40-60-80 m<sup>2</sup>

Monolithic preformed GFRP (Glass Fiber Reinforced Polymer) mesh, consisting of long alkali-resistant glass fibers impregnated with thermosetting epoxy-vinylester resin. Mesh dimensions: 66×66 mm / 99×99 mm.

Product	Mesh size	Weight	Elastic modulus
FBMESH66X66T192AR	66 x 66 mm	approx. 850 g/m <sup>2</sup>	25,5 GPa
FBMESH99X99T192AR	99 x 99 mm	approx. 550 g/m <sup>2</sup>	25,5 GPa
FBMESH132X132T192AR	132 x 132 mm	approx. 450 g/m <sup>2</sup>	26,0 GPa

Render Scope of intervention

**02** Medium/deep/very deep degradation

**05** Restoration

**3**

**3**

## PREFORMED ANGLES

**RI-STUTTURA**

**FBANG66X66T192AR**  
**FBANG99X99T192AR**

Pack of 10 pieces



Preformed GFRP (Glass Fiber Reinforced Polymer) element at a right angle, consisting of long glass fibers impregnated with thermosetting epoxy-vinylester resin. Mesh dimensions: 66×66 mm / 99×99 mm.

Product	Mesh size	Weight	Elastic modulus
FBANG66X66T192AR	66 x 66 mm	approx. 900 g/m <sup>2</sup>	25,5 GPa
FBANG99X99T192AR	99 x 99 mm	approx. 700 g/m <sup>2</sup>	25,5 GPa

## PREFORMED CONNECTORS

### RI-STRUTTURA FBCON



Preformed "L" connector in GFRP (Glass Fiber Reinforced Polymer) for connecting the FBMesh mesh to the support, made with AR glass fiber pre-tensioned and impregnated with vinylester-epoxy thermosetting resin.

Dimension short side	Dimension long side	Elastic modulus	Tensile strength
100 mm	from 100 mm to 1000 mm	26,5 GPa	Average 455 MPa Characteristic 380 MPa

Render Scope of intervention

02  
05

Medium/deep/very deep degradation

Restoration

3  
3

## BARS

### RI-STRUTTURA PB-D\_G17



Preformed bar in GFRP (Glass Fiber Reinforced Polymer) composite material consisting of chemically resistant glass fiber and polyester-type thermosetting resin.

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

Render Scope of intervention

03  
06

FRP reinforcement

FRP reinforcement

2  
2 3 4

### RI-STRUTTURA PB-D\_-G17AM



Preformed bar in GFRP (Glass Fiber Reinforced Polymer) composite material with **improved adhesion**, consisting of chemically resistant glass fiber and thermosetting polyester resin.

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

Render Scope of intervention

03  
06

FRP reinforcement

FRP reinforcement

2  
2 3 4

\*\* in release



# BETONTEX FRP REINFORCEMENTS

FRP structural reinforcement system composed of fabrics, laminates, and bars in carbon fiber and corrosion-resistant epoxy resins, used for confinement of columns, shear and flexural reinforcement of beams, confinement of joints, and flexural and/or shear reinforcement of concrete slabs.

## CARBON FABRIC

### BETONTEX FB-GV330U-MT

Pack of 10-20-50-100 m

Medium tenacity thermowelded unidirectional carbon fiber reinforcement, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
300 g/m <sup>2</sup>	from 20 to 50 cm	250 GPa

Render Scope of intervention

**03** FRP reinforcement  
**06** FRP reinforcement

2

2

### BETONTEX FB-GV420U-MT

Pack of 10-20-50-100 m

Medium tenacity thermowelded unidirectional carbon fiber reinforcement, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
400 g/m <sup>2</sup>	from 20 to 50 cm	250 GPa

Render Scope of intervention

**03** FRP reinforcement  
**06** FRP reinforcement

2

2

## BETONTEX FB-GV620U-MT

Pack of 10-20-50-100 m

Medium tenacity thermowelded unidirectional carbon fiber reinforcement, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
600 g/m <sup>2</sup>	from 20 to 50 cm	250 GPa

Render Scope of intervention

03	FRP reinforcement
06	FRP reinforcement

2

2

## BETONTEX FB-GV330U-HT

Pack of 10-20-50-100 m



High tenacity thermowelded unidirectional carbon fiber reinforcement, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
300 g/m <sup>2</sup>	from 5 to 50 cm	245 GPa

Render Scope of intervention

03	FRP reinforcement
06	FRP reinforcement

2

2

## BETONTEX FB-GV420U-HT

Pack of 10-20-50-100 m



High tenacity thermowelded unidirectional carbon fiber reinforcement, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
400 g/m <sup>2</sup>	20 - 50 cm	245 GPa

Render Scope of intervention

03	FRP reinforcement
06	FRP reinforcement

2

2

## BETONTEX FB-GV620U-HT

Pack of 10-20-50-100 m



High tenacity thermowelded unidirectional carbon fiber reinforcement, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
600 g/m <sup>2</sup>	20 - 50 cm	245 GPa

Render Scope of intervention

03	FRP reinforcement
06	FRP reinforcement

2

2

\*\* in release

## BETONTEX FB-GV320U-HM

Pack of 10-20-50-100 m



Unidirectional reinforcement thermowelded in high modulus carbon fiber, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
300 g/m <sup>2</sup>	20 - 50 cm	390 GPa

Render Scope of intervention

03

FRP reinforcement

2

06

FRP reinforcement

2

## BETONTEX FB-GV420U-HM

Pack of 10-20-50-100 m



Unidirectional reinforcement thermowelded in high modulus carbon fiber, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
400 g/m <sup>2</sup>	20 - 50 cm	390 GPa

Render Scope of intervention

03

FRP reinforcement

2

06

FRP reinforcement

2

## BETONTEX FB-GV620U-HM

Pack of 10-20-50-100 m



Unidirectional reinforcement thermowelded in high modulus carbon fiber, usable in the reinforcement of reinforced concrete and masonry structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
600 g/m <sup>2</sup>	20 - 50 cm	390 GPa

Render Scope of intervention

03

FRP reinforcement

2

06

FRP reinforcement

2

## BETONTEX FB-MULTIAX400

Pack of 10-50 m

Multidirectional reinforcement thermowelded in high tenacity carbon fiber, usable in the reinforcement of reinforced concrete, masonry, and wood structures with the fiber-reinforced plating technique.

Weight	Tape width	Elastic modulus
400 g/m <sup>2</sup>	127 cm	230 GPa

Render Scope of intervention

03

FRP reinforcement

2

06

FRP reinforcement

2

## CARBON MESHES

**BETONTEX**

### FB-RC225-TH12-R8 FB-RC225-TH12-R16

Pack of 50-100 m



High tenacity carbon fiber nets used for the reinforcement of reinforced concrete, masonry, and wood structures with the fiber-reinforced plating technique.

Product	Mesh size	Weight	Elastic modulus
FB-RC225-TH12-R8	8 x 8 mm	approx. 200 g/m <sup>2</sup>	245 GPa
FB-RC225-TH12-R16	16 x 16 mm	approx. 200 g/m <sup>2</sup>	245 GPa

Render Scope of intervention

**03** FRP reinforcement

**06** FRP reinforcement

2

2

## CARBON LAMINATES

**BETONTEX**

### FB-G14L-HT

Pack of 25-50-100 m

High tenacity pultruded carbon fiber laminate. Equipped with double *peel ply* film.

Thickness	Laminate width	Elastic modulus
1,4 mm	50 - 150 mm	170 GPa

Render Scope of intervention

**03** FRP reinforcement

**06** FRP reinforcement

2

2

**BETONTEX**

### FB-G14L-HM

Pack of 25-50-100 m

High modulus carbon fiber pultruded laminate. Equipped with double *peel ply* film.

Thickness	Laminate width	Elastic modulus
1,4 mm	50 - 150 mm	200 GPa

Render Scope of intervention

**03** FRP reinforcement

**06** FRP reinforcement

2

2

**BETONTEX**  
**FB-G14L-HHM**

Pack of 25-50-100 m

Ultra-high modulus carbon fiber pultruded laminate. Equipped with double peel ply film

Thickness	Laminate width	Elastic modulus
1,4 mm	50 - 150 mm	250 GPa

Render Scope of intervention

03	FRP reinforcement
06	FRP reinforcement

2  
2

**BARS AND CONNECTORS IN CARBON FIBER**

**BETONTEX**  
**FB-G\_BL-HT**



Preformed bar in CFRP (Carbon Fiber Reinforced Polymer) composite material, smooth, made 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

Render Scope of intervention

03	FRP reinforcement
06	FRP reinforcement

2  
2

**BETONTEX**  
**FB-G\_BAM-HT**



Preformed bar in CFRP (Carbon Fiber Reinforced Polymer) composite material with **improved adhesion**, made 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

Render Scope of intervention

03	FRP reinforcement
06	FRP reinforcement

2  
2

## BETONTEX FB-G\_BAM-HM



Preformed bar in CFRP (Carbon Fiber Reinforced Polymer) composite material with improved adhesion, made of high modulus chemically resistant 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

Render Scope of intervention

03  
06

FRP reinforcement  
FRP reinforcement

2  
2

## BETONTEX FB-TUP10-CHT1A

Pack of 25-50 pieces



Bar in CFRP (Carbon Fiber Reinforced Polymer) composite material, 10 mm diameter, made of high tenacity chemically resistant carbon fiber and thermosetting resin, with one end (L=20 cm) to be impregnated in situ.

Ends to impregnate	Length preformed part	Elastic modulus	Tensile strength
n.1 x 20 cm	from 10 to 100 cm	130 GPa	Average 1700 MPa Characteristic 1190 MPa

Render Scope of intervention

03  
06

FRP reinforcement  
FRP reinforcement

2  
2

## BETONTEX FB-TUP10-CHT2A

Pack of 25-50 pieces



Bar in CFRP (Carbon Fiber Reinforced Polymer) composite material, diameter 10 mm, made of high tenacity chemically resistant carbon fiber and thermosetting resin, with both ends (L=20 cm) to be impregnated in situ.

Ends to impregnate	Length preformed part	Elastic modulus	Tensile strength
n. 2 x 20 cm	from 10 to 100 cm	130 GPa	Average 1700 MPa Characteristic 1190 MPa

Render Scope of intervention

03  
06

FRP reinforcement  
FRP reinforcement

2  
2

**BETONTEX  
FB-TUF\_CHT**

Pack of 10-25-50 m

High tenacity carbon fiber tuft with external elastic mesh sleeve for anchoring FRP reinforcement of masonry, reinforced concrete, or steel structures.

Diameter	Elastic modulus	Theoretical tensile breaking load
8-10-12 mm	245 GPa	≥ 80 - ≥100 - ≥ 170 kN

Render Scope of intervention

**03** FRP reinforcement  
**06** FRP reinforcement

**2**  
**2**

**BETONTEX  
FB-TUF\_CHM**

Pack of 10-25-50 m

High modulus carbon fiber tow with an external elastic mesh sleeve for anchoring FRP reinforcement of masonry, reinforced concrete, or steel structures.

Diameter	Elastic modulus	Theoretical tensile breaking load
8-10-12 mm	390 GPa	≥ 80 - ≥100 - ≥ 170 kN

Render Scope of intervention

**03** FRP reinforcement  
**06** FRP reinforcement

**2**  
**2**

**RESINS**

**BETONTEX  
FB-RC01**

Pack A 4 kg + Pack B 2 kg



High modulus carbon fiber tow with an external elastic mesh sleeve for anchoring FRP reinforcement of masonry, reinforced concrete, or steel structures.

Average consumption	Appearance
150 ÷ 300 g/m <sup>2</sup>	transparent liquid

Render Scope of intervention

**03** FRP reinforcement  
**06** FRP reinforcement

**2**  
**2**

## 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 tapes, fabrics, or meshes to the support to be reinforced.

Fabric weight	Average consumption		Appearance
	First layer	Subsequent layers	
300 g/m <sup>2</sup>	approx. 600 g/m <sup>2</sup>	approx. 300 g/m <sup>2</sup>	dense translucent liquid
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>	

Render Scope of intervention

03  
06

FRP reinforcement  
FRP reinforcement

2  
2

## BETONTEX FB-RC30/3

Pack A 4 kg + Pack B 1 kg



Thixotropic epoxy resin suitably thickened for the application of reinforcements with carbon fiber laminate and for the grouting of bars.

Average consumption	Appearance
approx. 3 ÷ 5 kg/m <sup>2</sup> (sheets) approx. 1,5 ÷ 3 kg/m (bars)	Gray paste

Render Scope of intervention

03  
06

FRP reinforcement  
FRP reinforcement

2  
2

## BETONTEX ACCESSORIES

### FB-RULL

Bubble breaker roller

### FB-APPL

KIT COMPOSED OF:

- no. 1 set of polyethylene carafes (no. 3 of 2 l + no. 3 of 1 l)
- no. 2 brushes of 5 cm
- no. 2 rollers of 10 cm no. 1 scissors for cutting no. 1 cutter
- no. 3 spatulas 30-50 mm
- no. 1 plastic whisk for mixing
- no. 1 precision scale for material weighing no. 10 replacement rollers

### ACMYLAR25-490X600

Polyethylene terephthalate (Mylar®) sheet for FRP lamination, dimensions 490x600

### M-715-0004

Ground quartz sand 1/2 mm

### FB-ACET

Thinner (acetone) for cleaning equipment - 1 L container



# GRP solutions for geotechnics

## GRP SOLUTIONS FOR GEOTECHNICS

In geotechnics, the use of GRP elements in the form of bars, tubes or micropiles is a versatile and reliable solution for temporary and permanent reinforcement, offering numerous advantages including light weight, high tensile strength and non-conductivity, which also makes them ideal for railway tunnel maintenance. Their corrosion resistance ensures greater durability of the structures, even when in contact with chemically aggressive water and soil. In addition, their quick and easy installation helps to reduce the time and cost of operations, offering an efficient solution for safe underground work.



### G-TECH

The GRP products of the G-TECH line are designed for temporary or permanent consolidation in tunnel faces, underground works and, more generally, in soil stabilisation. Characterised by their light weight and high tensile strength, they allow safe, fast and environmentally friendly processing.







# G-TECH GRP PIPES



The GRP pipes of the G-TECH line are specially developed for the temporary consolidation of tunnel faces or for permanent stabilisation in underground works. Among the intrinsic characteristics of the product are its light weight and high tensile strength, combined with easy removal with traditional excavation equipment, which allow work to be carried out safely. The GRP products in the G-TECH line are equipped with helical milling, which significantly improves the adhesion of the injection mixture, and can be supplied open or fitted with a cap and sleeve valve to control the filling pressure. The product offering is complemented by injection and anchoring mortars with characteristics optimised for use in geotechnical applications.



## G-TECH

**PIPE - P-VTR 60-40/400 F**  
**PIPE - P-VTR 60-40/500 F**  
**PIPE - P-VTR 60-40/600 F**  
**PIPE - P-VTR 60-40/800 F**

**P-VTR 60-40/400 FV**  
**P-VTR 60-40/500 FV**  
**P-VTR 60-40/600 FV**  
**P-VTR 60-40/800 FV**

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



ASSISTENZA TECNICA  
FIBRE NET

FRECCIARVENTO

# Technical structures and fences in GRP

## TECHNICAL STRUCTURES IN GRP



The P-TREX range offers customised GRP composite solutions for infrastructure. These solutions are designed to guarantee unparalleled durability and minimise maintenance costs. P-TREX structures, from the simplest to the most complex, are custom-designed to serve the operation of facilities and works of art and guarantee a safe working environment.



Standard and custom GRP structures, developed according to NTC 2018. Characterised by excellent chemical resistance to corrosion, thermal and electrical insulation, they can also be placed in direct contact with drinking water. From a mechanical point of view, they exhibit a tensile strength comparable to steel and have a lower weight per volume than aluminium; these characteristics make it possible to create high-performance structures that are light and stable over time.

<p align="center"><b>GRP solutions for road mobility</b></p>	<p align="center"><b>GRP solutions for rail mobility</b></p>
<ul style="list-style-type: none"> <li>- Cycle/pedestrian walkways</li> <li>- Inspection and maintenance walkways under bridges/viaducts</li> <li>- Escape routes, noise barriers</li> <li>- Pipe racks to support technical installations</li> </ul>	<ul style="list-style-type: none"> <li>- Pedestrian and maintenance railway crossings</li> <li>- Pipe racks to support technical installations</li> <li>- Perimeter fences and boundaries</li> <li>- Manhole and shaft covers</li> </ul>
<p align="center"><b>GRP solutions for waterways</b></p>	<p align="center"><b>Lightweight carpentry</b></p>
<ul style="list-style-type: none"> <li>- Elements for coastal installations and waterfront projects</li> <li>- Marine jetties and platforms</li> <li>- Floating and overbank photovoltaic structures</li> <li>- Pipe racks serving technical installations</li> </ul>	<ul style="list-style-type: none"> <li>- Structures for use and maintenance in confined spaces</li> <li>- Parapets</li> <li>- Walkways and walkways</li> <li>- Inclined stairs and sea stairs</li> </ul>

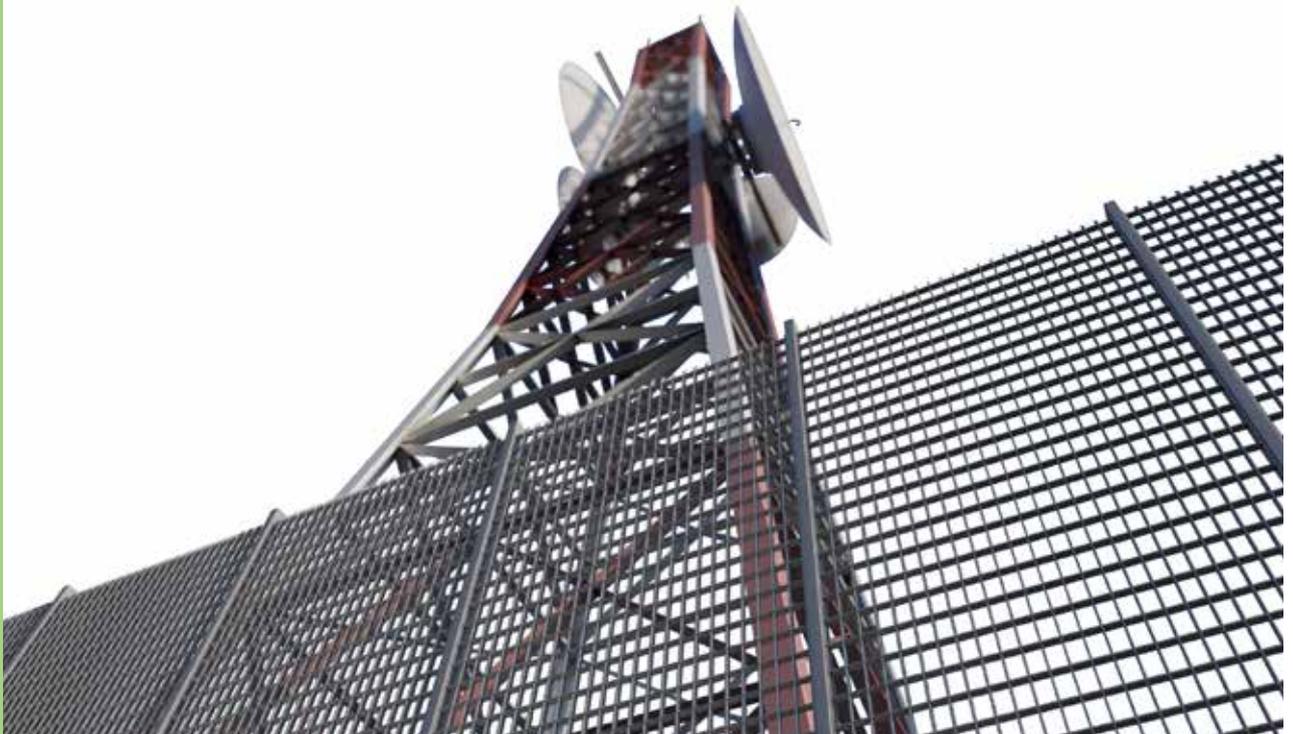
## TECHNICAL GRP FENCING

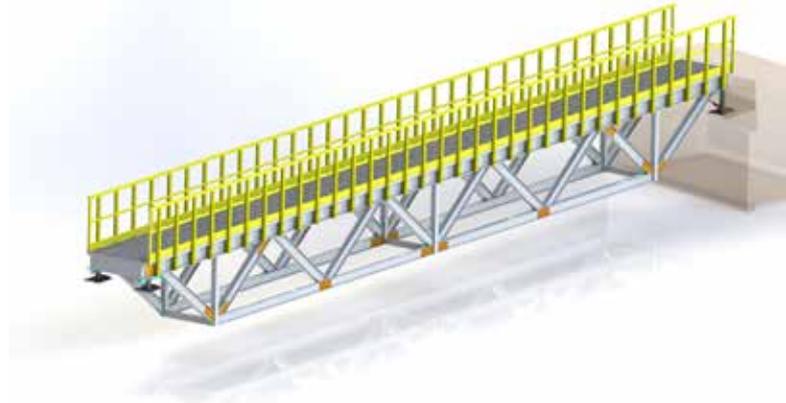


The FibreFENCE line offers GRP fences and gates designed for a wide range of applications in road, rail and water mobility. These solutions, which are widely used as perimeter barriers, have unique characteristics of breakability and radio-transparency, combined with extraordinary durability, low maintenance and light weight. They are particularly suitable for power stations, railway lines and industrial areas, where safety and resistance are essential.

**FIBREFENCE**  
FENCING SOLUTIONS

FibreFENCE is the range of fences and gates dedicated to the confinement of electrical stations and substations, railway lines, industrial areas and wherever electrical insulation, non-magnetic and corrosion resistance are required. All GRP fences are accompanied by certificates of radio-transparency, UV resistance and freeze-thaw cycles. Thanks to the well-known durability of the composite material, maintenance is reduced to zero.





# STRUCTURES IN GRP

P-TREX is the line dedicated to the design and production of custom GRP structures, capable of ensuring long-term durability and zero maintenance costs, even in aggressive environments. Lighter than ferrous materials, they offer excellent mechanical resistance. Their insulating and radio-transparency properties make them ideal for protection against electrical risks and for the confinement of sensitive areas.

P-TREX solutions are designed in line with current technical standards:

- Technical Construction Standards (D.M. 17/01/2018) and related explanatory Circular no. 7/2019
- CNR DT 205/2007 "Instructions for the Design, Execution, and Control of Structures made with Pultruded Profiles of Fiber Reinforced Composite Material (GRP)" - Legislative Decree 81/2008 as amended "Consolidated text on health and safety at work" - References to UNI EN ISO 14122 "Permanent means of access to machinery"



## P-TREX S GUARDRAILS



P-TREX S GRP guardrails are used for the construction of maintenance and access structures, either permanent or temporary, as protection against falls from heights greater than 50 cm. They can be installed on concrete, steel, wood, plastics, and reinforced plastics in GRP.



Color	Constituent elements	Supply methods	Fixing systems
- yellow RAL 1023 * - gray RAL 7035 *	- post - handrail - toe board	- loose - preassembled - ready for installation	- lateral - with base bracket for fixing on wall - self-supporting

\* Other colors available on request  
Manufactured to any design and size required by the customer

## P-TREX S WALKWAYS



The P-TREX S GRP walkways are used as access and service routes for maintenance and ensure safety and durability where external agents can compromise ferrous materials. They can be installed on concrete, steel, wood, plastics, and GRP reinforced plastics structures. They can be sized for different loads and uses, including as walkways and cycle-pedestrian paths.



Color	Constituent elements	Supply methods	Destinations of use
- yellow RAL 1023 * - gray RAL 7035 *	- guardrail - structure - walking surface	- preassembled - modular - ready for installation	- access and maintenance - technical services for plants - cycle-pedestrian paths

\* Other colors available on request  
Manufactured to any design and size required by the customer

## P-TREX S SERVICE LADDERS



The P-TREX S GRP marine ladders are an effective choice for the construction of maintenance and access structures, whether permanent or temporary, in particularly harsh environments, in the presence of chemicals or high humidity, as an improved solution to heavy metal structures. They can be installed on concrete, steel, and wooden structures.



Color	Constituent elements	Supply methods	Types
- yellow RAL 1023 * - gray RAL 7035 *	- post - fixed ladder - safety cage - fixing brackets	- preassembled - modular - ready for installation	- vertical - with intermediate breaks - self-supporting for access to measurements

\* Other colors available on request  
Manufactured to any design and size required by the customer

\*\* in release

**P-TREX S**  
**SERVICE STRUCTURES**



The P-TREX S GRP structures, composed of inclined ladders and railings, are lightweight, easy to install, and offer high mechanical performance. Given the target context, precise structural adaptations are studied to ensure maximum performance. They can be installed on concrete, steel, wood, plastics, and reinforced plastics in GRP.



Color	Constituent elements	Supply methods	Types
- yellow RAL 1023 * - gray RAL 7035 *	- guardrail - ergonomic handrail - stairs - fixing brackets	- preassembled - modular - ready for installation	- with wall anchoring - multiple - overcoming small elevation differences

\* Other colors available on request  
Manufactured to any design and size required by the customer

**COMPLEX STRUCTURES**

**P-TREX S**  
**RACK AND INSPECTION  
STRUCTURES**



The GRP P-TREX S structures are lightweight, easy to install, and offer high mechanical performance. Depending on the context to which they are intended, precise structural adaptations are studied to ensure maximum performance. They can be installed on concrete, steel, wood, plastics, and reinforced plastics in GRP, such as racks and underbridge inspection structures.



Color	Constituent elements	Supply methods	Types
- yellow RAL 1023 * - gray RAL 7035 *	- guardrail - structure - walking surface	- preassembled - modular - ready for installation	- access and maintenance - techniques for servicing plants - cycle-pedestrian paths

\* Other colors available on request  
Manufactured to any design and size required by the customer



# TECHNICAL FENCES IN GRP

FibreFENCE is the technical line of GRP fences and gates widely used as perimeter confinements, including for industrial use.

Particularly widespread in the airport sector, where they meet the requirements of frangibility and radio transparency, GRP fences are the ideal confinement for electrical stations and substations, railway lines, industrial areas, and wherever electrical insulation, non-magnetic properties, and corrosion resistance are required.

Compared to traditional materials, FibreFENCE stands out as an improved and more sustainable solution: its durability, lack of maintenance, and not least, its lightness, are the most requested requirements by authorities and Safety Managers.

## MESH



GRP fence with flexible, lightweight, and durable mesh, to be assembled on-site.

Color	Constituent elements	Height
green RAL 6018*	<ul style="list-style-type: none"> <li>- GRP mesh</li> <li>- pultruded profiles in GRP</li> <li>- accessories in steel, plastic, or GRP</li> </ul>	standard from 1 to 2,5 m

\* Other colors available on request  
Manufactured to any design and size required by the customer





## GATE



Transparent and frangible GRP radio gates and crash gates.

Color	Constituent elements	Length	Height
green RAL 6018*	<ul style="list-style-type: none"> <li>- GRP mesh</li> <li>- pultruded profiles in GRP</li> <li>- accessories in steel, plastic or GRP</li> </ul>	up to 12 m	standard from 1 to 2,5 m



\* Other colors available on request  
Manufactured to any design and size required by the customer

## GRATING

Monolithic GRP grating fence, unmatched strength-to-weight ratio.

Color	Constituent elements	Height
gray*	<ul style="list-style-type: none"> <li>- GRP mesh</li> <li>- pultruded profiles in GRP</li> <li>- accessories in steel, plastic or GRP</li> </ul>	standard from 1 to 4 m



\* Other colors available on request  
Manufactured to any design and size required by the customer

## RAILING

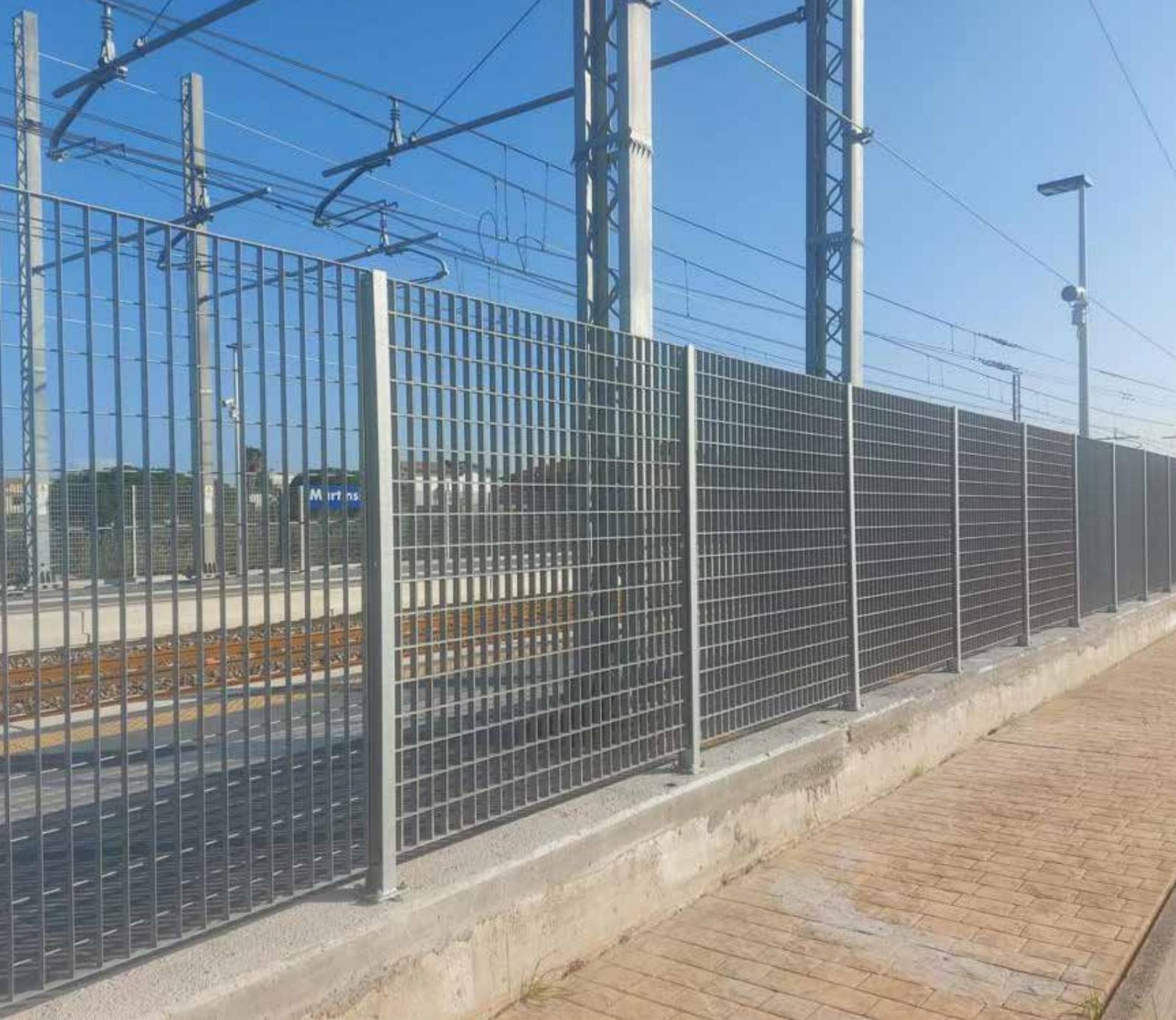


Pre-assembled GRP panel fence, ready to install.

Color	Constituent elements	Height
green RAL 6018*	<ul style="list-style-type: none"> <li>- pultruded profiles in GRP</li> <li>- accessories in steel, plastic or GRP</li> <li>- optional: upper deterrent</li> </ul>	standard from 1 to 2,5 m

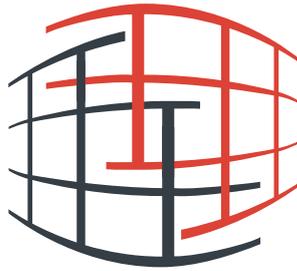


\* Other colors available on request  
Manufactured to any design and size required by the customer









## **FIBRE NET GROUP**

an idea, a passion  
an ever-evolving history





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

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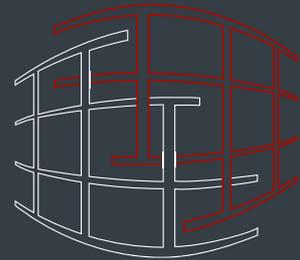
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#SENZAPHORANI

LEA MARNE  
WIND TO DANCE WITH

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## FIBRE NET GROUP



### Fibre Net S.p.A.

Via Jacopo Stellini, 3 - Z.I.U.  
33050 Pavia di Udine (Ud) ITALY  
Tel. +39 0432 600918  
[www.fibre.net](http://www.fibre.net) - [info@fibre.net](mailto:info@fibre.net)



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with UNI/PdR 125



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ISO 9001:2015 standard



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