INNOVATIVE COMPOSITE MATERIALS
Composite Fiber and Rebar

About company

We are an R&D and manufacturing company specializing in the production of innovative reinforcement bars made from composite materials by continuous pultrusion.

We implement:

- Development of production processes
- Manufacture of composite products and mortars
- BIM design of composite structures

On the market since 2011.
Implemented objects: more than 850,000 sq.m.
Technologies are protected by patents.

Products

COMPOSITE REBAR

Designed for linear reinforcement of concrete structures

COMPOSITE FIBER

Designed for dispersed reinforcement of concrete structures

UHPFRC

Ultra-high-strength concretes. Designed for use in critical and unique designs

REPAIR MIXES

Designed to repair concrete structures and give new properties

Our composite materials facilitate the production of works, reduce costs, increase the service life of structures up to 3 times.

Disadvantages of traditional materials

LOW CORROSION RESISTANCE

HIGH MATERIAL SPECIFIC WEIGHT

UNEVEN DISTRIBUTION IN CONCRETE

DIFFICULTITY OF HANDLING FINISHED PRODUCTS

INCREASED WEAR OF CONCRETE PUMP HOSES

LOW MECHANICAL STRENGTH

POOR SPREAD IN CONCRETE

STEEL FIBER AND REBAR

POLYPROPYLENE FIBER

The use of traditional materials leads to an increase in cost, time and a decrease in the quality of work, as well as an increase in the cost of repairing structures.

Advantages of composite materials

RESISTANCE TO CORROSION

HIGH MECHANICAL STRENGTH

EQUAL DISTRIBUTION IN CONCRETE

LOW SPECIFIC WEIGHT

SIMPLICITY OF WORK

EASE OF HANDLING FINISHED PRODUCTS

NO WEAR ON THE CONCRETE PUMP HOSE

COMPOSITE FIBER AND REBAR

Our composite materials increase the reliability and quality of concrete structures, simplify operations and reduce overall costs.

Comparison of macrofiber with analogues

Index	Unit	Our product	Strofiber	Monopol	Polyex Mesh	PolyArm	Bekaert
		ПКМ	polypropylene	polypropylene	polymer	polypropylene	steel
Thermal conductivity	W/(m*K)	0,5	0,24	0,24	0,3	0,24	58
Corrosion resistance	-	high	high	high	high	high	low
Electrical conductivity	-	dielectric	dielectric	dielectric	dielectric	dielectric	conductor
Density	kg/cm³	1,9	0,91	0,91	0,91	0,91	7,8
Tensile modulus	GPa	55	1,5	1,5	1,7	1,7	190
Tensile strength	MPa	1200-1500	250	250	160-170	156	1100-1300
Melting temperature	°C	900	160	160	160-170	156	1450
Elongation at break	%	2,2	170-260	10	170-260	33	14

Our macrofiber has mechanical characteristics comparable to metal, high corrosion resistance and low weight.

Comparison of reinforcement with analogues

Index	Unit	Our product	BZS (GOST 31938-2012)	Rockbar (GOST 31938-2012)	ASK (GOST 31938-2012)	Steel rebar AIII
		composite	composite	composite	composite	steel
Thermal conductivity	W/(m*K)	0,5	0,5	0,5	-	58
Corrosion resistance	-	high	high	high	high	low
Electrical conductivity	-	dielectric	dielectric	dielectric	dielectric	conductor
Density	kg/cm³	14,2	14,2	12,5	12	-
Tensile modulus	GPa	55	50	52	50	190
Tensile strength	MPa	1300	890	1000	800	360
UV protection during storage	-	protected	not protected	not protected	not protected	doesn't need

Our composite rebar has the best ratio of adhesion to concrete and tensile strength, as well as high corrosion resistance.

Areas of application of materials

DRAINAGE CHANNELS

ROAD CONSTRUCTION

BRIDGE CONSTRUCTION

CIVIL ENGINEERING

INDUSTRIAL ENGINEERING

METRO CONSTRUCTION

INDUSTRIAL FLOORS

COMPOSITE FIBER AND REBAR

Our materials can be used in various critical designs designed to work in extreme conditions. Their use will allow to achieve a significant improvement in performance.

Cooperation opportunities

SUPPLY OF FINISHED PRODUCTS - supply of any volume of products to your construction sites with technical support and support at all stages.

SALE OF EQUIPMENT FOR PRODUCTION - production of our lines for the production of any volume of products in your country.

ENGINEERING AND STARTING PRODUCTION IN YOUR COUNTRY- design, construction and start-up of a turnkey enterprise in your country.

ORGANIZATION OF A JOINT VENTURE - organizing a joint venture and building a business.

We are ready to consider any mutually beneficial forms of cooperation. In addition, our experts will be able to offer the most effective way to use our products.


THANK YOU FOR YOUR ATTENTION!