

Sustainable Products

BÜFA®-future





BÜFA®-Resins

Product name	Item no.	Styrene content	NaWaRo content	Recycled content	Sustainability aspect	Added value (USP)	Industries	Comments
BÜFA®-Resin UP 0113 ACR	7000113	< 25 %			Reduced styrene		Swimming Pools / Sanitary/ Tanks & Pipes	Pre-accelerated, low viscosity, thixotropic and filled laminating resin of medium reactivity. Suitable for hand lamination and fibre spray processes
BÜFA®-Resin UP 0119 ACR	7000119	< 25 %		> 5 %	Reduced styrene, contains recycled content		Swimming Pools / Sanitary	Pre-accelerated, low viscosity, thixotropic and filled laminating resin of medium reactivity. Suitable for hand lamination and fibre spray processes
BÜFA®-Resin VE 0910	7000910					Class A	Transportation / Cruiser / Marine / Sanitary / Tooling	Thixotropic, pre-accelerated vinyl ester urethane resin based on bisphenol A epoxy
BÜFA®-ECO-Resin UP 2020 HLU styrene-free	7002020	0 %			Styrene-free		Wind Energy / Cruiser / Marine / Sanitary	Styrene-free, thixotropic, medium reactive, low viscosity laminating resin
BÜFA®-Resin VE 6520 RTM	7006520					Class A surface quality; closed-system processes	Transportation	Filled and pre-accelerated resin system that cures without shrinkage
BÜFA®-Resin UP 6601 RTM	7006601	< 25 %			Reduced styrene	Closed-system processes	Cruiser / Marine	Pre-accelerated, tinted UP resin.
BÜFA®-ECO-Resin UP 6889 biobased	7006889		> 5 %		70 % by weight organic resin from renewable sources		Railway / Cruiser / Marine / Swimming Pools	Pre-accelerated, non-thixotropic polyester resin based on sustainable raw materials
BÜFA®-Resin VE 7100 Tooling	7007100					Class A surface quality	Wind Energy / Transportation / Railway / Cruiser / Marine / Swimming Pools	Filled and pre-accelerated resin system that cures without shrinkage
BÜFA®-Resin UP 7330 MC Foaming	7007330					BÜFA®-Foaming Resin; lightweight	Transportation	Thixotropic polyester resin, that can be foamed with special blowing agents

Sustainable Products

BÜFA®-future

New Chemistry emerges when chemistry and sustainability unite. Our products with the „future“ label meet the highest standards in terms of environmental friendliness and sustainability. Every product bearing this label has been carefully tested.

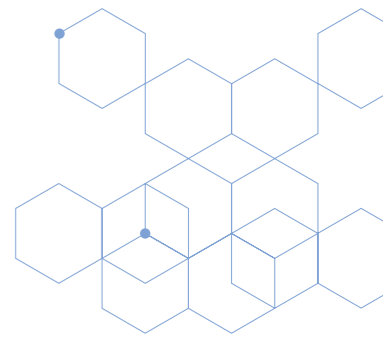
This seal is intended to provide a clear indication of sustainable products.

In the composites field, for example, these products help reduce VOC emissions, use raw materials from biological sources or use recycled waste streams to minimize environmental impact. Reduced material consumption or improved safety aspects can also be benefits.

At BÜFA Composite Systems, the label ‚BÜFA®-future‘ stands for forward-looking visions in the composites industry.



Innovative and Sustainable Reactive Resin Specialties.
New Chemistry for Sustainable Composite Components.



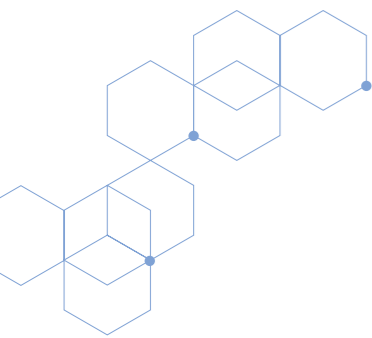
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BÜFA®-Resins

Product name	Item no.	Styrene content	Sustainability aspect	Added value (USP)	Industries	Comments
BÜFA®-Firestop S 425	7160425			BÜFA®-FireFox System; closed-system processes	Building & Construction / Wind Energy / Railway / Tanks & Pipes	Unfilled, halogen-free, pre-accelerated, for structural components in the vacuum injection process
BÜFA®-Firestop S 440	7160440			BÜFA®-FireFox System; closed-system processes	Building & Construction / Wind Energy / Railway / Tanks & Pipes	Pre-accelerated VE infusion resin for structural components using the vacuum injection process
BÜFA®-Firestop S 520	7160520			BÜFA®-FireFox System; closed-system processes	Wind Energy / Railway	ATH-filled resin for structural components, pre-accelerated in the RTM process
BÜFA®-Firestop S 570	7160570	< 25 %	Reduced styrene		Building & Construction / Wind Energy / Railway	ATH-filled, thixotropic resin for structural components in the hand lamination process, pre-accelerated
BÜFA®-Firestop S 585	7160585			BÜFA®-FireFox System; class A surface quality; closed-system processes	Building & Construction / Transportation / Railway	Filled, pre-accelerated VE-LP resin with good fire retardant properties
BÜFA®-Firestop 8175-W-1	7168175	< 25 %	Reduced styrene		Building & Construction / Railway	Filled thixotropic resin for structural components for hand lamination processes, pre-accelerated. Can also be used for RTM processes
BÜFA®-Firestop S 910 Foaming Resin	7960910			BÜFA®-FireFox System; BÜFA®-Foaming Resin; lightweight; closed-system processes	Transportation / Railway	Unfilled foam resin system with good fire retardant properties using the RTM process
BÜFA®-Conductive-Resin VE 2245	7211003			Conductive	Tanks & Pipes	Pre-accelerated epoxy bis-A VEU resin, dissolved in styrene. The use of highly efficient conductive additives enables surface resistances of << 10 ⁶ Ω



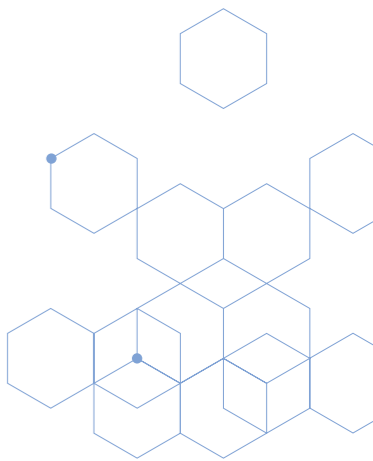
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BÜFA®-Gelcoats

Product name	Item no.	Styrene content	Sustainability aspect	Added value (USP)	Industries	Comments
BÜFA®- VEU-Conductive Gelcoat black	7220262	< 25 %	Reduced styrene	Conductive	Building / Construction / Tanks & Pipes	Gelcoat for moulded parts where chemical resistance is required in addition to electrical conductivity. Hand quality
BÜFA®-Conductive Gelcoat black	7220399	< 25 %	Reduced styrene	Conductive	Building / Construction	Gelcoat for moulded parts where basic fire protection is required in addition to electrical conductivity. Hand quality
BÜFA®-ISO-Gelcoat-SV leitfähig kieselgrau	7227500			Conductive	Building / Construction	Conductive spray coat for moulded parts that need strong weathering properties, as well as electrical conductivity
BÜFA®-Tooling-Conductive-Gelcoat-S-A-black	3040207			Conductive	Tooling	Conductive tooling spray gelcoat suitable for the production of GRP moulds that are exposed to high chemical and thermal stresses
BÜFA®-Neogel®-Eco-9373-W-2-white-B7-93808-E	6200080	30%		Low-Emission	Cruiser / Marine	Gelcoat for exterior parts boat building and low emission



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BÜFA®-Bonding Pastes

Product name	Item no.	Styrene content	NaWaRo content	Sustainability aspect	Industries	Comments
BÜFA®-Bonding Paste 0110	7400110		> 5 %	NaWaRo content > 5 %	Wind Energy / Transportation / Railway / Cruiser / Marine / Tank & Pipes	For bonding rotor blades for wind energy plants, boat building, pipe bonding, high dynamic loads across a wide temperature range
BÜFA®-Bonding Paste 0111	7400111		> 5 %	NaWaRo content > 5 %	Wind Energy / Transportation / Railway / Cruiser / Marine / Tank & Pipes	Modification 7400110 – but with higher stability after machine processing (higher thixotropy)
BÜFA®-Bonding Paste 0182	7400182		> 5 %	NaWaRo content	Transportation / Cruiser / Marine	Levelling compound ("liquid laminate")
BÜFA®-Bonding Paste 0015	7400015	<25 %		Reduced styrene	Building & Construction / Transportation / Cruiser / Marine	Sandwich bonding paste with low density
BÜFA®-Fine Body Filler Spray	7400002	<25 %		Reduced styrene	Transportation / Cruiser / Marine	Repair filler in spray version, spray filler for model making with good sanding properties
BÜFA®-Modelling Compound	7400004	0 %	> 5 %	NaWaRo content > 5 %, styrene-free	Building & Construction / Tooling	Natural wax compound with fillers. Permanently plastic modelling compound for model and mould making for filling hollows, closing cavities and modelling
FREEFIX® 6470-W-2	6956470	< 25 %		Reduced styrene	Transportation / Cruiser / Marine	Filler and for bonding cured GF-UP laminates, as long as they are subject to normal requirements
BÜFA®-Bonding Paste 0188	7400188	< 25 %		Reduced styrene	Transportation / Cruiser / Marine	Bonding paste for standard bonding, filling applications (gap filling) up to 10 cm, lightweight construction applications in boat building

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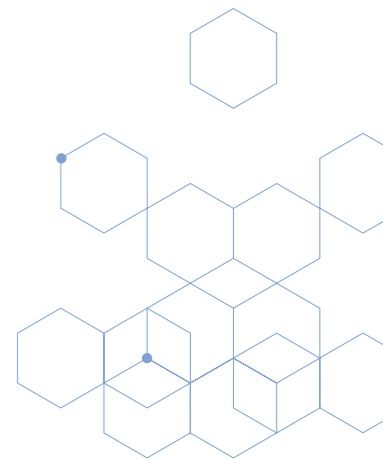


BÜFA®-Bonding Pastes

Product name	Item no.	Styrene content	NaWaRo content	Sustainability aspect	Industries	Comments
BÜFA®-Bonding Paste 0600	7400600	< 25 %		Reduced styrene	Building & Construction / Cruiser / Marine	Standard bonding paste
BÜFA®-Bonding Paste 0601	7400601	< 25 %		Reduced styrene	Building & Construction / Cruiser / Marine	Standard bonding paste
BÜFA®-Bonding Paste 0650	7400650	< 25 %		Reduced styrene	Building & Construction / Cruiser / Marine	Standard bonding paste, impact-modified, good stability after machine processing
BÜFA®-Bonding Paste 0651	7400651	< 25 %		Reduced styrene	Building & Construction / Cruiser / Marine	Standard bonding paste, impact-modified, good stability after machine processing
BÜFA®-Bonding Paste 0185	7400185	< 25 %		Reduced styrene	Transportation / Cruiser / Marine	Standard bonding paste with very good mechanical properties, good thixotropy
BÜFA®-Bonding Paste 0588	7400588		> 5 %	NaWaRo content > 5 %	Transportation / Tanks & Pipes	Standard applications; highly reactive; also for thin layers; tack-free curing, fixing applications

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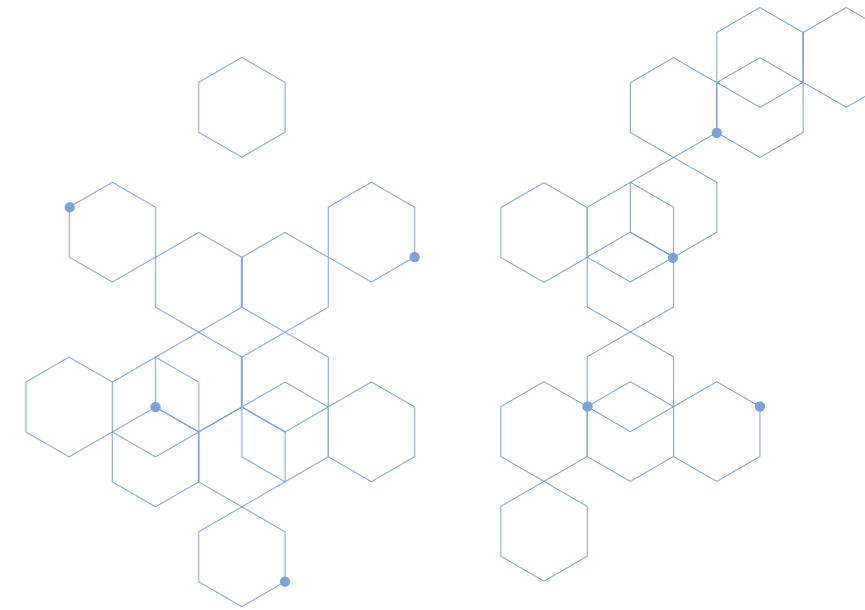


BÜFA®-Accelerators

Product name	Item no.	Styrene content	Sustainability aspect	Industries	Comments
BÜFA®-Accelerator polymeric Cobalt 1	7420071		Polymeric cobalt	Building & Construction / Wind Energy / Transportation / Railway / Cruiser / Marine / Swimming Pools / Sanitary / Tanks & Pipes / Tooling	Styrene and styrene derivative-free topcoat for use in interiors or industrial applications
BÜFA®-Accelerator polymeric Cobalt 4	7420096	0 %	Polymeric cobalt, styrene-free	Building & Construction / Wind Energy / Transportation / Railway / Cruiser / Marine / Swimming Pools / Sanitary / Tanks & Pipes / Tooling	Styrene-free ISO / NPG-based spray topcoat suitable for surfaces that are exposed to high UV and / or hydrolytic stress (marine, automotive, sanitary, etc.)
BÜFA®-Accelerator Co 10 BTX-free / NEW	7951222	0 %	BTX-free, styrene-free	Building & Construction / Wind Energy / Transportation / Railway / Cruiser / Marine / Swimming Pools / Sanitary / Tanks & Pipes / Tooling	Styrene and styrene derivative-free topcoat for use in interiors or industrial applications

BÜFA®-Additives

Product name	Item no.	Styrene content	Sustainability aspect	Added value (USP)	Industries	Comments
BÜFA®-Additive Repair Solution	7420030		Repair additive		Transportation / Cruiser / Marine	BÜFA®-Additive Repair Solution is a specially modified paraffin solution, dissolved in styrene and acetone, for gelcoat repairing
BÜFA®-Conductive-CNT-Paste-UP	7210001	0 %	Styrene-free	Conductive	Building & Construction / Tanks & Pipes	BÜFA®-Conductive-CNT-Paste-UP is a masterbatch with 1 % Single Wall Carbon Nanotubes. The resin base is a styrene- and monomer-free unsaturated polyester resin
BÜFA®-Conductive-CNT-Paste-EP	7210002	0 %	Styrene-free	Conductive	Building & Construction / Tanks & Pipes	BÜFA®-Conductive-CNT-Paste-EP is a masterbatch with 1 % Single Wall Carbon Nanotubes. The resin base is a mixture of bisphenol-A and bisphenol-F epoxy resin
BÜFA®-Conductive-Resin-Additive UP 1412	7211412			Conductive	Tanks & Pipes	BÜFA®-Conductive-Resin-Additive UP 1412 is a concentrate with 0.2 % Single Wall Carbon Nanotubes in bisphenol A resin. The concentrate is not pre-accelerated
BÜFA®-Conductive-Resin-Additive UP 1433	7211433	< 25 %	Reduced styrene	Conductive	Building & Construction	BÜFA®-Conductive-Resin-Additive UP 1433 is a concentrate with 0.3 % Single Wall Carbon Nanotubes in bisphenol A resin. The concentrate is not pre-accelerated



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