Steel fibers

Dramix® 3D

The legacy range of Dramix® steel fibers. Throughout the years, 3D has become the reference in steel fiber reinforcement. Combining good performance, durability and ease-of-use, 3D provides you with a time-saving and cost-efficient alternative to traditional concrete reinforcement solutions.

Benefits

- Efficient crack control and durability
- Easy dosing, mixing, finishing.
- Increased post crack flexural performance
- Load bearing reinforcement
- Thickness optimization and lower CO_2 impact

Applications

- Saw cut floors
- Industrial flooring
- Composite decking
- Commercial floors

Dramix® 4D

Dramix® 4D is designed with optimal service-ability in mind. Tensile strength and anchorage are engineered specifically to improve crack control, enabling you to create more durable structures. At the same time, the 4D series is also the ideal solution for applications where steel fibers are combined with traditional reinforcement methods.

- Exceptional crack control, durability, and post-crack flexural performance
- High serviceability, crack width control when used with mesh or rebar.
- Load bearing reinforcement
- Thickness optimization and lower CO_2 impact

- Saw cut floors
- Jointless floors
- Seamless floors, combi slabs Heavy duty pavements
- Floors on piles
- Rack supported structures
- Composite deck
- Port pavements

Dramix® 5D

The Dramix® 5D series provides you with the ultimate in performance, thanks to a unique combination of a perfectly shaped hook, a high ductility wire, and extreme tensile strength. Its outstanding performance in concrete makes the 5D the perfect solution for structural applications.

- Excellent crack control, durability, and post-crack flexural performance
- Strain hardening reinforcement behavior.
- High load bearing reinforcement

- Foundation slabs
- Mat/Raft slabs Floors on piles
- Rack supported structures

Why galvanized?

Galvanized steel fibers are **rust-free** over their long lifetime. This means no performance degradation over time due to rusting. Furthermore, it improves the bonding with the concrete matrix and lastly, it prevents unattractive discoloring, which means no compromise of the aesthetic aspect.

Why choose Bekaert as your partner?

Choose Bekaert as your partner for a seamless and reliable experience in the construction industry. With local stock readily available, Bekaert ensures consistent quality, just-in-time service, and competitive pricing from its American plants and warehouses. Boasting a proven track record, Bekaert has been integral in reinforcing approximately 150,000 square feet of industrial flooring daily across America with its top-notch Dramix® steel fibers. Tunnels and mines worldwide, from the US to Paris to Australia, have relied on our Duomix® and Synmix® solutions for decades, and we have the know-how to bring these solutions to our flooring customers. This is what sets us apart. We provide individual design support through a team of technical experts, who utilize in-house design software to craft cost-efficient concrete solutions in compliance with local standards and codes. Trust Bekaert for expertise, reliability, and a legacy of excellence in the construction domain.

construction.bekaert.com

NV Bekaert SA
Bekaertstraat 2
BE-8550 Zwevegem
T +32 56 76 61 11
infobuilding@bekaert.com

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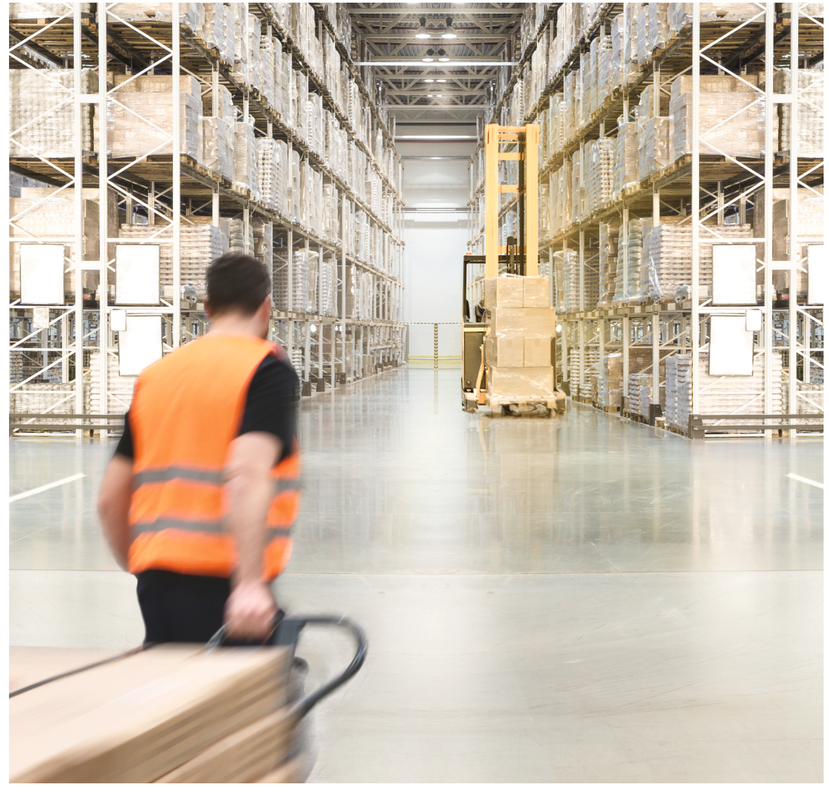
Bekaert

Dramix®

Sustainable floors that keep your space running.



Each floor has its own unique challenges due to **heavy wear and tear** caused by daily traffic, forklifts, robots, and heavy machinery. However, an optimized fiber reinforced floor can keep your warehouse or factory running smoothly. Contractors, designers, and builders worldwide have chosen to **replace traditional concrete reinforcement** solutions like rebar or mesh **with fiber reinforcement** due to tightening tolerances, cost, faster execution need, higher efficiency, and sustainability needs.

Utilized in **numerous successful projects worldwide**, we reinforce **over 300 million square foot of floors with Dramix® steel** fibers globally. We work with all stakeholders to determine the most suitable technical flooring solution for each project, reducing its overall environmental impact. Our decades of knowledge and experience accompany these projects from design to concrete finishing.

Why choose fiber reinforcement?

Lower total cost

Using fiber reinforcement can lead to a lower total cost of ownership compared to mesh or rebar. Although rebar is less expensive per unit weight than steel fibers, other factors such as less concrete and steel usage, increased durability, lower maintenance costs, and faster construction time contribute to a lower long-term cost.

More durable

Fiber reinforcement controls cracks more efficiently by reinforcing every part of the concrete structure. This results in faster control of small cracks compared to traditional reinforcement methods. Additionally, using fiber concrete reinforcement reduces the number of joints needed, leading to fewer weak points and less maintenance during the life span of the floor.

More sustainable

Fiber reinforcement allow for significant savings of reinforcement material and concrete. Combined with the fact that less energy is used during the construction process and that well designed floors last longer, transitioning to fiber reinforcement enables significant CO_2 savings.

Faster and safer

Working with rebar and mesh involves the time-consuming and labor-intensive activity of placement, tying, cutting, and bending the reinforcement. In contrast, fibers are added directly to the concrete, guaranteeing an easy and safe installation on the construction site.

A fiber for every need

Because each concrete floor has its specific reinforcement requirements, you can choose from a complete range of steel and synthetic fibers. Each one has been specifically engineered to provide the right solution to any flooring need, including yours.

Synthetic fibers

	Benefits	Applications
Microsynthetic		
Duomix® M20 The standard for plastic shrinkage crack control. Duomix® micro synthetic fibers reduce cracks during plastic shrinkage and reduce bleeding during the initial curing of concrete.	Reduces early age plastic settlement and shrinkage cracking	• Residential, Commercial & Industrial slabs • Outdoor pavements • Precast
Macrosynthetic		
Synmix® EZ Dynamic, easy to install and cost-efficient. This twisted monofilament fiber is the contractors' top pick for its ease of mixing, finishing, and cost-effectiveness.	• Easy handling, dosing & mixing • Easy placement and finishing for industrial, commercial and residential interior slabs • Aesthetics	• Residential & Commercial applications • Industrial slabs • Composite metal decks • Overlays
Synmix® Core The balance between cost and performance. Synmix® Core is our tape monofilament fiber. that strikes the perfect balance between cost and performance.	• Easy handling, dosing & mixing • Easy placement and finishing for industrial, commercial and residential interior slabs, as well as outdoor pavements interior slabs • Aesthetics	• Residential & Commercial applications • Industrial slabs • Outdoor pavements • Composite metal decks • Overlays
Synmix® Ultra Ultra powerful mechanical anchorage. Synmix® Ultra are embossed stick fibers and excel in offering enhanced mechanical anchorage. The most cost-efficient solution when the technical requirements for the floor need a little extra power.	• Easy placement and finishing for outdoor pavements	• Residential & Commercial applications • Outdoor pavements • Precast • Shotcrete