

FIBER & TEXTILE AUXILIARIES

FASALOOP

Closing the recycling loop



ZSCHIMMER & SCHWARZ

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Closing the recycling loop

With FASALLOOP, Zschimmer & Schwarz enables full recyclability for artificial turf and carpet systems. Conventional constructions rely on multi-material composites using styrene butadiene, styrene acrylic latex or polyurethane backings. At the end of life, the complex material structure makes separation for recycling particularly challenging. FASALLOOP replaces conventional backings with advanced polyester- and polyolefin-based systems. This enables the design of mono-material constructions that can be recycled without complex material separation.

In artificial turf applications, polyolefin fibers tufted into a polyolefin primary backing can be combined with a polyolefin-based FASALLOOP secondary backing, allowing the entire system to be recycled as one material stream. The same principle applies to polyester-based carpet constructions, including automotive interiors.

FASALLOOP represents a decisive step toward closing material loops and reducing the overall CO₂ footprint.

Our FASALLOOP portfolio comprises two dispersion technologies:

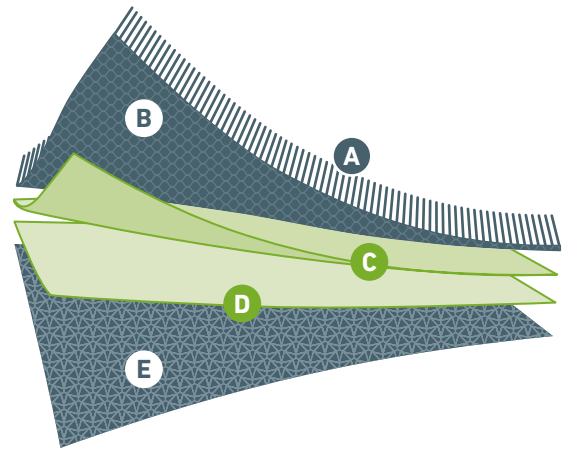
- ▶ **FASALLOOP PET** for polyester-based carpet constructions
- ▶ **FASALLOOP POD** for polyolefin-based artificial turf systems

BENEFITS

- ▶ Enables mono-material systems for full recyclability
- ▶ Simpler material separation at the end of life
- ▶ Reduces overall CO₂ footprint
- ▶ Suitable for artificial turf, textile flooring, and carpets

THE FASALLOOP PORTFOLIO

PRODUCT FAMILY	CHEMICAL BASE	PROPERTIES	COLOR	APPLICATION
FASALLOOP PET	Polyester	Solid content: 30–60 %	White	Nonwovens, woven and tufted carpets; application in unfoamed as well as in foamed form
FASALLOOP POD	Polyolefin	Solid content: 40–60 %	White	Nonwovens, woven and tufted artificial turf; application in unfoamed as well as in foamed form



CLOSER LOOK AT THE CARPET LAYERS

A Carpet face **B** Primary backing

C Primary coating **D** Secondary coating

E Secondary backing (optional)

FASALLOOP PET – CLOSING THE LOOP FOR CARPET SYSTEMS

Designed for polyester-based carpets such as automotive interior textiles, FASALLOOP PET supports the transition from conventional multi-material systems to circular PET solutions.

The FASALLOOP PET product family offers high flexibility: Viscosity can be precisely adjusted, foam stability ensures consistent application, and formulations are available with fillers to meet specific technical requirements. Tailor-made formulations can be developed to meet individual process and performance requirements.

Beyond recyclability, FASALLOOP PET provides excellent performance including durability and very good dimensional stability and tuft bind strength. Polyester-based systems also contribute less to flammability compared to e.g. conventional SBR-latex backings.

With FASALLOOP PET, carpets are no longer the end of a material journey but the beginning of a new cycle.



FASALOOPOD – CLOSING THE LOOP FOR ARTIFICIAL TURF

Designed for artificial turf applications, FASALOOPOD maintains the high technical performance required for modern sports and landscape systems. The technology provides excellent dimensional stability and high tuft bind strength, meeting demanding quality standards up to FIFA requirements.

The FASALOOPOD product family offers high flexibility: Viscosity can be precisely adjusted, foam stability ensures consistent application, and formulations are available with fillers to meet specific technical targets. Tailor-made formulations can be developed to match individual process conditions and performance requirements.

With FASALOOPOD, artificial turf becomes part of a true material loop, combining circularity with industrial performance.

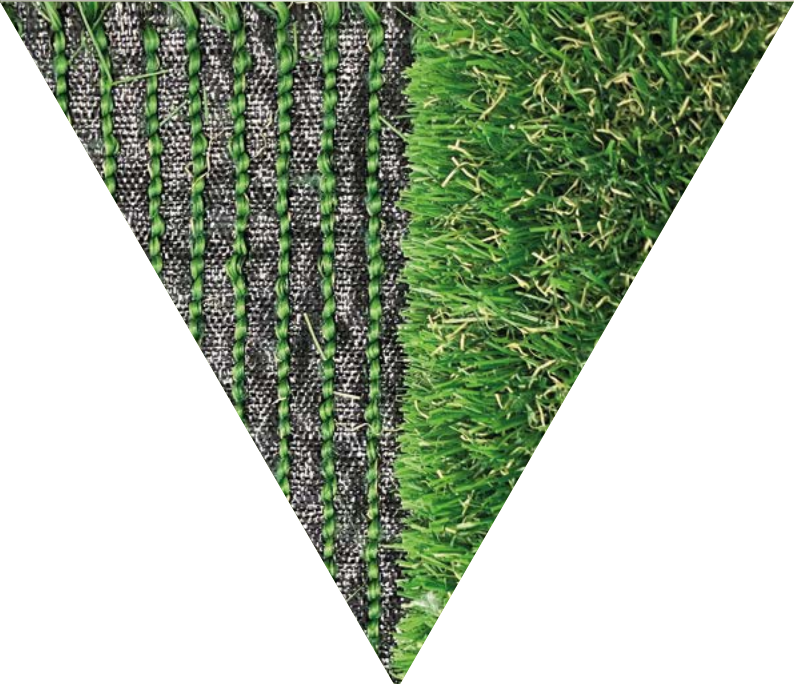
TAILOR-MADE CHEMISTRY

Every application and production process comes with its own specific requirements. Our FASALOOPOD solutions can be tailored to individual applications, process conditions and performance targets.

Our experts are happy to support you with product selection and formula optimization.

Get in touch with us:

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