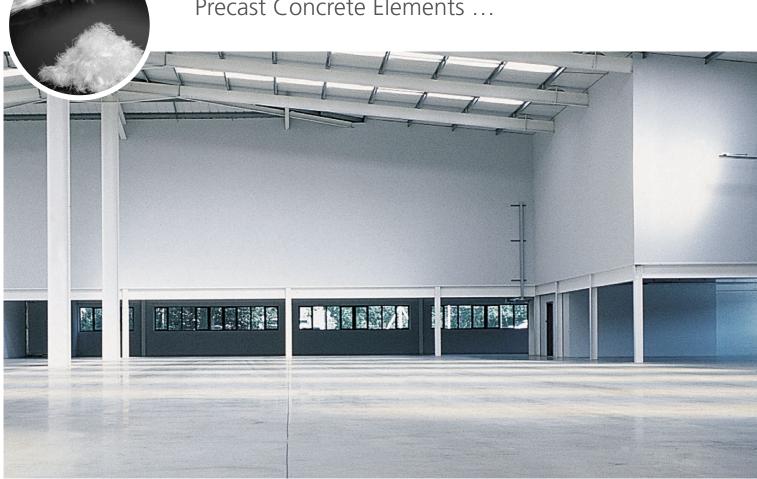




Functional Fibres for Concretes, Industrial Floorings,
Precast Concrete Elements ...







Since the 1980's the **PB EUROFIBER** brand has made a name for itself as a performance additive to improve construction materials.

Our functional fibres are used to optimise product and processing properties in a wide variety of technical products including concretes, cement-based mortars, adhesives and dry-mix compounds.

PB EUROFIBER has been successfully used to enhance the fire resistance of concretes and cement mortars since the 1990's.



Functional Fibres for Concretes and Screeds PB EUROFIBER



Application Sectors

- Concretes
- Industrial floorings
- Screeds
- Precast concrete elements
- Fire-resistant concretes
- Mortars
- etc.

Fibre Properties

- Density: 0.91 g/cm³ Lighter in weight than PAN/acrylic fibres (1.18 g/cm³) and glass fibres (2.6 g/cm³)
- Resistant to alkalis
- Chemically resistant to acids, bases, salts and most solvents
- Outstanding dispersibility
- Corrosion-free
- Antistatic
- Melting point: approx. 165 °C
- Auto-ignition temperature: > 320 °C
- Service temperature range: up to 120 °C

Typical Application Advantages

- Reduction of shrinkage cracking
- Increased green strength
- Optimised processing properties
- Improved freeze-thaw resistance
- Higher impact strength
- Increased flexural strength / tensile splitting strength
- Improved fire resistance (reduction of spalling)

Product Range (other products also available)

PP-Monofilament Fibres

Product		Fibre Diameter µm	Fibre Length mm	Usual Dosage kg/m³	Fibre Count approx. 10 ⁶ /kg	Theoretical Length approx. km/kg	Certifications
PB EUROFIBER REF 506	20/6	19.8	6.0	0.9	600	3600	(1, 2)
PB EUROFIBER REF 512	20/12	19.8	12.0	0.9	300	3600	(1, 2)
PB EUROFIBER REF 520	20/18	19.8	18.0	0.9	200	3600	(1, 2)
PB EUROFIBER PRO-MIX	32/6	31.7	6.0	0.9	230	1400	(1, 2, 3)
PB EUROFIBER PRO-MIX	32/12	31.7	12.0	0.9	115	1400	(1, 2)
PB EUROFIBER PRO-MIX	32/18	31.7	18.0	0.9	70	1400	(1, 2)
PB EUROFIBER MF 1217	15/12	15.4	12.0	0.5	500	5900	(1, 2)

PP-Split-Film Fibres

Product	Elementary Fibril µm	Fibre Length max. mm	Usual Dosage kg/m³	Fibre Count approx. 10 ⁶ /kg	Theoretical Length approx. km/kg	Certifications
PB EUROFIBER REF 306	38 x 200	6.0		23	140	(1, 2)
PB EUROFIBER REF 310	38 x 200	10.0	0.9 - 1.0	14	140	(1, 2)
PB EUROFIBER REF 315	38 x 200	15.0	0.9 - 1.0	9	140	(1, 2)
PB EUROFIBER REF 320	38 x 200	20.0	0.9 - 1.0	7	140	(1, 2)

Technical Data

	Multifil / Monofil Fibres	Split-Film Fibres	
Polymer	Polypropylene (PP)	Polypropylene (PP)	
Fibre cross-section	round	rectangular / flat	
Fibre diameter	13 - 145 μm	38 x 200 μm	
Fibre length	2.2, 3, 4.6, 6, 12, 18 mm	2, 3, 6, 10, 15, 20 mm	
Elongation at break	approx. 100 - 200 %	< 12 %	
Tensile strength	> 220 N/mm²	> 340 N/mm ²	
Elastic modulus	approx. 1000 N/mm²	approx. 4000 - 6000 N/mm ²	

- Other fibre geometries on request
- Certifications/official approvals (1) DIBt certification (German Institute of Construction Technology) (Certification no.: Z-3.73-1878) (2) CE certified according to System 1 (with annual third-party monitoring) (3) BB2G classification by ÖVBB Guidelines
- Packaging options Small bags: 50-5000 g/Large bags: 15-25 kg Big Bags: approx. 200-500 kg

All information and data in this brochure are provided without engagement. We recommend evaluation of product suitability by appropriate testing before use.