



Concrix[®]

The true alternative to steel
reinforcement and steel fibres in
precast element production



A **PowerPak** improves concrete properties

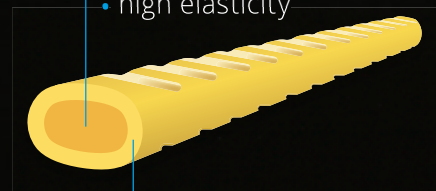
THE END PRODUCT – A POWERPAK

Concix is a unique, bicomponent synthetic fiber with a structured surface. The fibre core – thanks to its high elasticity – offers maximum strength, while the special, structured sheath ensures excellent bonding to the concrete.

For simple application and dosing, the fibres are bundled into a PowerPak that can be easily added to fresh concrete. The synthetic hull dissolves within seconds during mixing, releasing the individual fibres and allowing them to disperse evenly. Up to 150,000 fibres per kg of Concix provide optimal, three-dimensional reinforcement.

Composition of the unique **BICOMPONENT MACROFIBERS**

- Core**
- heavy duty strength
 - high elasticity



- Sheath**
- easy handling
 - bonds easily with concrete



Maximum performance at a low cost

TECHNICALLY IMPRESSIVE

High flexural tension, excellent post-crack ductility and long-term test results increasingly making Concrx the preferred macrofibre for precast concrete elements.

SIMPLE APPLICATION

Steel laying effort is completely eliminated or greatly reduced. Concrx allows for increasingly thin and light structural components. Fine elements and free forms, such as those used in architectural applications, become feasible.

DURABLE AND MAINTENANCE-FREE

Corrosion – a problem with steel fibres and mats – is of no concern with polyolefin fibres. Even aggressive liquids don't stand a chance against Concrx.

Increased durability with no additional maintenance.

EFFECTIVE STRENGTHENING

With its uniquely high fibre density per m³ of concrete (several hundred thousand fibres), low fibre width of 0.5 mm and equal distribution, even the finest edges are effectively strengthened. Unsightly spalling of these delicate areas is thus avoided.

In addition, Contec Fiber AG holds an Environmental Product Declaration (EPD) for Concrx in accordance with ISO 14025 and EN 15804.

CE Certified in accordance with EN 14889-2

In Europe, only products that meet the standards of EN 14889-2 are approved for use.

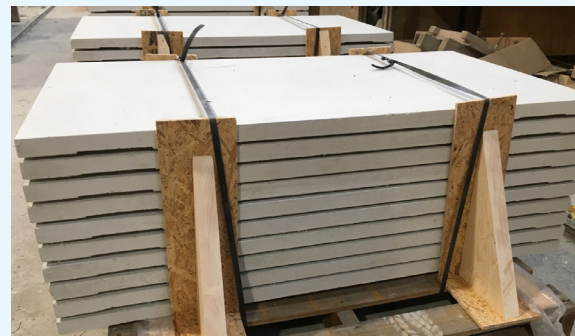
SAMPLE APPLICATIONS



Precast element - modular house



Precast element - building façade



Precast element - building façade



Precast element - Singapore harbor wall

Benefits

Greatly reduced steel reinforcement laying

Delicate structural elements and special forms feasible

Reinforcement prevents spalling all the way to edges

No corrosion in architecturally sophisticated elements

Easy handling due to light weight

High flexural strength and excellent post-crack ductility

Resistant against aggressive liquids

Eurocode-compliant static calculations

Longer life with low maintenance

Low carbon footprint and environmental impact

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