



**Concrist**<sup>®</sup>

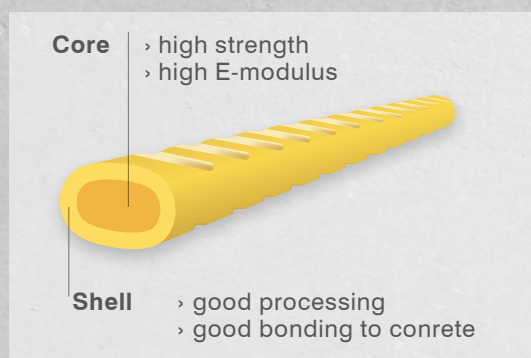
The real alternative to  
steel reinforcement and steel fibers  
for the precast production.





# A PowerPak that improves the properties of concrete

## Composition of the unique bi-component macrofiber.



Concrix is a unique bi-component polymer fiber with a structured surface. The high E-modulus of the core of the fiber guarantees the **highest strength**, while the special structured shell ensures **excellent bonding to the concrete**.

## Examples of use

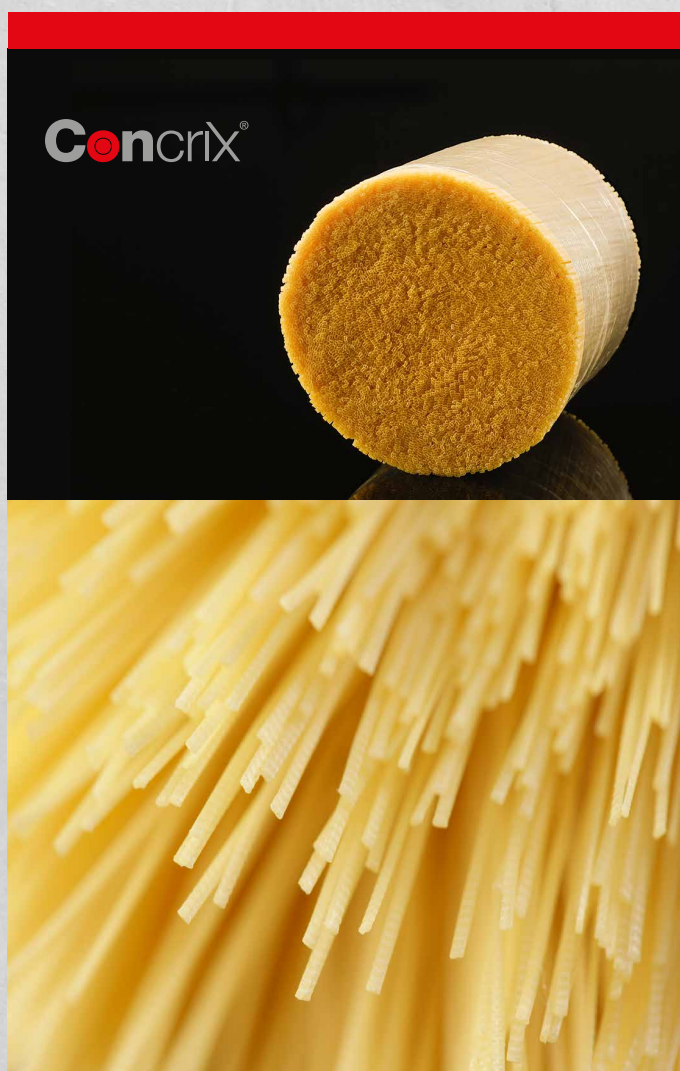


Precast element modular home



Precast element building façade

## The final product - a PowerPak



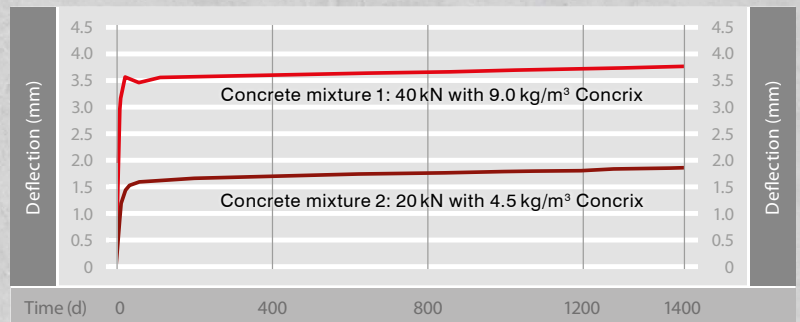
For **simple application and dosage** the fibers are bundled as a PowerPak, which is simply added to the wet concrete. The polymere wrapping dissolves within seconds during mixing and the individual fibers are distributed evenly throughout the mixture. Up to 150'000 fibers per kg Concrix HS 35 ensure **an optimal, three-dimensional reinforcement**.



# High performance at low cost

## Technically convincing

Due to the high bending tensile strength, the excellent post-crack behavior and the resistance to creepage, proven in long-term tests, Concrix is becoming more and more the preferred macrofiber for the reinforcement of precast concrete elements.



Source: EMPA Material Science & Technology, Switzerland

## Easy handling

The **time-consuming installation of steel** can be **eliminated** completely or will be reduced massively. The use of Concrix allows **precast elements getting thinner and lighter**. **Fine elements and free forms**, e.g. for architectural applications, are technically feasible now.



Precast element building façade

## Durable and maintenance-free

**Corrosion**, a problem with steel fibers or traditional steel reinforcement, is **no longer an issue**. Even aggressive fluids (for example in sewage pipes) cannot harm Concrix.



Harbor wall Singapore

**Increases the life expectancy without additional maintenance.**

Due to the **unequalled high number of fibers** per m<sup>3</sup> concrete (several hundred thousand fibers), the small fibre cross section of only 0.5 mm and the excellent spatial distribution of the fibers, **even the finest edges will be effectively reinforced**. Unaesthetic spallings of these delicate areas can now be avoided.

In addition, Contec Fiber AG is one of the first fiber manufacturers who offers macrofibres with a Life-Cycle-Assessment (LCA) and is certified based on ISO 14025 and EN15804 + A1.



MRPI®-REGISTRATION  
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# Your benefits.

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- › **Time consuming installation** of steel can be **eliminated** or reduced massively
- › **Fine elements and free forms** are possible
- › **Reinforcement** even of the **finest edges** avoids spalling
- › **No corrosion** problems for superior architectural elements
- › **Easy handling** thanks to the low weight
- › **High tensile strength** and an **excellent post-crack behaviour**
- › **Resistant** to aggressive fluids
- › **Structural calculation** in accordance with Eurocode
- › **Longer service life** with minimal maintenance requirements
- › **Low carbon footprint** and reduced environmental impact

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