



**Concrix**<sup>®</sup>

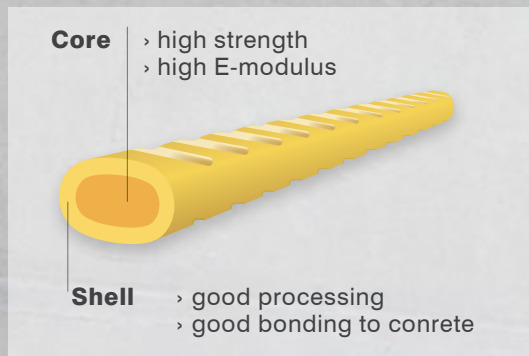
The real alternative to  
steel reinforcement and steel fibers  
for the precast production.

**BRUGG**

**CONTEC**  
Strong fibers.

# A PowerPak improves the properties of concrete

The core element, a high-performance fiber.



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

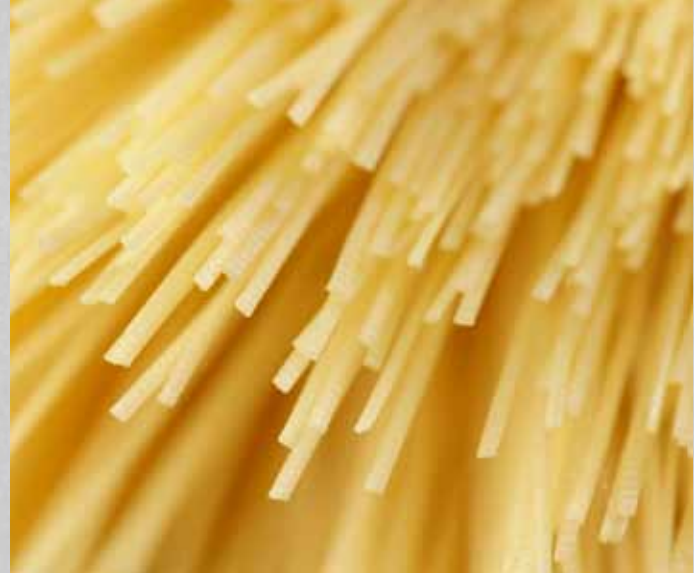


Precast element slit drainage gutter



Precast element railway sleeper

The final product - a PowerPak

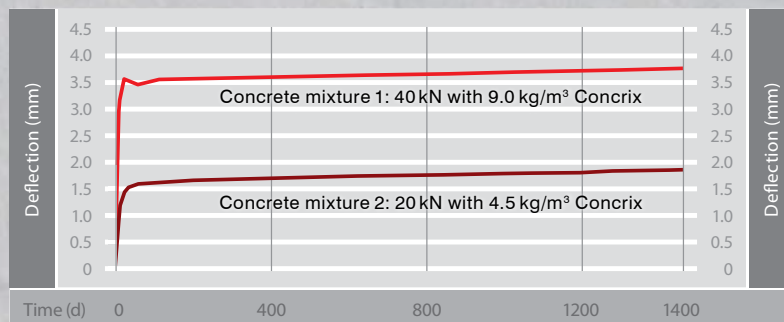


For **simple application and dosage** the fibers are packed as a PowerPak, which is simply added to the wet concrete. The polymere wrapping dissolves within seconds during mixing and the individual fibers are distributed evenly throughout the mixture. Up to 150'000 fibers per kg Concrix HS 35 ensure **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 creeping, proven in long-term tests, Concrx is becoming more and more the preferred macrofiber for the reinforcement of precast concrete elements.



Source: EMPA Material Science & Technology, Schweiz

## Easy handling

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



Precast element building facade

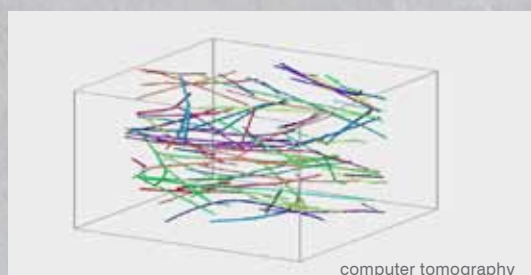
## Durable and maintenance-free

**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 Concrx.



Harbor Singapore

**Increases the useful 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 **also the finest edges will be effectively reinforced**. Unaesthetic spallings of these delicate areas can be avoided.

The picture of a computer tomographie on the left shows the spatial distribution of Concrx in the concrete matrix.

# Your benefits.

07/2015

- › **Time consuming installation** of steel can be **eliminated** or reduced massively
- › **Fine elements and free forms** are feasible
- › **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

Brugg Contec AG  
Gübsenstrasse 80  
CH-9015 St. Gallen  
T +41 71 466 12 12  
F +41 71 466 12 10  
info@bruggcontec.com  
www.bruggcontec.com

**BRUGG** **CONTEC**  
Strong fibers.