

Concrix®

The cost-effective and ecological alternative to steel fibers.



A PowerPak that improves the properties of concrete



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 binding to the concrete**.

Examples of use



Shotcrete for hydropower plant



Shotcrete for tunneling





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. More than 100'000 fibers per kg Concrix ES ensure **an excellent working capacity**.

CE Certified according to EN 14889-2 In Europe only products tested according to EN 14889-2 are approved.

High performance at low cost

Highest performance due to bi-component structure

Several tests carried out by independent test institutes according to EFNARC-guidelines show the excellent working capacity of Concrix. **More than 1000 J with just 4.5 kg Concrix/m³** at 25 mm deformation are possible.

Source: EMPA Material Science & Technology, Switzerland



Demonstrably no creeping

The long term test (creep test) of an independent test institute proves impressively that the innovative fiber structure **prevents creepage**. The test which lastet over 1500 days is worldwide unique.

Source: EMPA Material Science & Technology, Switzerland

Excellent durability

Concrix fibers are resistant against aggressive waters (e.g. sulphates, thawing salts). Whereas steel shows a significant decrease in mechanical properties already after one year of exposure, the polymeric Concrix proved to be stable (Base: EFNARC square panels; red line: initial load to break; blue line: energy absorption after reloading after one year of exposure to chemicals).

Source: EMPA Material Science & Technology,, Switzerland







The **regular distribution of around 500,000 fibers per m**³ concrete is in part responsible for the excellent values displayed above (at an addition of only 4.5 kg/m³).

The picture, which was determined by computer tomography, threshold value assessment and morphological data analysis, shows the excellent spatial distribution of Concrix in the concrete matrix.

Your benefits.

- > Excellent working capacity even at low quantities of fiber
- > Significantly lower fiber and concrete consumption due to much lower rebound compared to steel fibers
- > Reduction of working time due to faster wall thickness growth
- > Preserves machines, hoses and nozzles and thus extends their service life
- > Safer and easier handling than with steel
- > No danger of injuries from projecting fibers
- > No damage to cables, pipes etc. due to any fibers sticking out
- > Reduction or elimination of creeping currents
- > Long service life (corrosion resistant, alkali resistant, no creep)
- > Low carbon footprint and reduce environmental impact

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