

# DATASHEET

## ConcRIX<sup>®</sup> ES



### Product description

ConcRIX ES is a bi-component Macrofiber serving as a structural concrete reinforcement. The rough fiber surface ensures superior bonding within the concrete, and the fiber bundles guarantee fast three-dimensional distribution throughout the matrix during the mixing process. The enhanced technical parameters of the concrete can be used for structural design purposes.

ConcRIX ES serves as a structural reinforcement, increases the impact resistance of the concrete, and can also be used in structural applications.

ConcRIX ES prevents sedimentation – the subsequent settlement of the matrix.

ConcRIX ES creates a high level of resistance for concrete structures exposed to aggressive water conditions.

### Application

ConcRIX ES is used in tunnelling (shotcrete), prefabrication applications, slabs and concrete walls, industrial floors, outside standings, for concrete repair works, concrete piles, special foundation works and different special applications.

On the basis of Eurocode 2 and the Fibre Concrete Guidelines it is possible to prove the adequate structural strength of slabs, concrete fields, foundations, walls and other structures and eliminate the steel reinforcement partially or completely.

### Dosage

The recommended approximate dosage for ConcRIX ES as a structural reinforcement is 2.0 to 7.5 kg/m<sup>3</sup> of concrete.

ConcRIX ES is available in standard lengths of 50 mm.

**Physical properties**

Specification	Bi-component Macrofiber
Material	Polyolefine
Form	structured fibers in bundles
Bulk density	0,91
Length	50 mm, tolerance +/- 5%
Number of fibers per kilo	≈ 120'000
Color	yellow
Resistance to acids/alkalis	inert
Tensile strength	≈ 590 N/mm <sup>2</sup>
Modulus of elasticity	> 11 GPa
Softening point	≈ 150° C
Diameter	500 µm

**Processing**

The original mixing times of the individual concrete formulations for most products can be retained. Special mixtures for specific products may require an extension of the mixing time.

Concrix ES can be easily processed with commonly used additives.

**Caution:** The addition of Concrix ES will increase the rigidity of the concrete!

To optimize the desired placement consistency, use concrete plasticizer!  
Do not add any additional water!

Before discharging fresh concrete on site, let the drum rotate again at maximum revolution for about 2 minutes.

**Packaging**

Boxes	8 bags of 3 kg = 24 kg
Pallets	25 boxes / Pal. = 600 kg
Big Bags and other packaging	upon request

**Warranty**

Concrix ES fulfills the standard EN 14889-2 according to system 1 and therefore guarantees a consistently high quality.

Contec Fiber AG does not have any control over production processes using Concrix ES. Therefore, Contec Fiber AG declines any liability for the associated end products.

Contec Fiber AG  
Via Innovativa 21  
CH-7013 Domat/Ems  
T +41 81 632 61 61  
info@contecfiber.com  
www.contecfiber.com

