CONLOC 6/12/18

SYNTHETIC FIBRES FOR CRACKFREE CONCRETE

CONLOC MONOFILAMENT DESIGN

CONLOC fibres are engineered exclusively for use in all common cementitious mixes. They are very fine fibres, made from 100% Polypropylene raw materials and therefore designed to disperse uniformly into millions of individual elements throughout the concrete and the mortar. Their main function is to act most efficiently at inhibiting early shrinkage cracking.

CONLOC CONCRETE PROPERTIES

With the fibres uniformly distributed throughout the mass, they provide a multidimensional secondary reinforcing system for crack control purposes. Cracks form within the first several hours after concrete placement.

In the very early state these plastic shrinkage cracks may pass through the entire slab destroying the integrity of the concrete before it has had the opportunity to develop its designed strength. CONLOC controls the formation of plastic shrinkage cracks by increasing the tensile capacity of the plastic concrete to develop its optimum design criteria

With millions of CONLOC fib res evenly dispersed, plastic shrinkage cracks are controlled so they have little opportunity to develop their energies from a micro to a macro crack.
Conloc fibres give increased durability to the concrete matrix in the event of Fire

SELECTIVE CHARACTERISTICS

- Prevents the formation of micro-cracks due to shrinkage stress.
- Substantial increase in impact resistance
- Sensitive increase in liquid density
- Highly increased durability
- Increases durability of concrete in the event of fire

PROFESSIONAL DESIGN SERVICE AVAILABLE !

DESIGN AND LOGISTICS

For request of technical designs and commercial information please contact us directly.

SPECIFICATIES CONLOC

Diameter in microns	7,5/18/30
Absorption water	NIL
Specific Gravity	0.91
Ignition Point	140°C
Melt Point	160°C
Tensile strength	15 cN/Tex
Chem. Resistance	Excellent
Ult. Elongation	+ 11%
Lengths in mm	6/12/18

PROCESSING AND DOSAGES

CONLOC - fibres are most easy to use. They may be added either at the batching plant or at the jobsite. It is recommended to mix for minimum 5 minutes to ensure thorough dispersion in the matrix. The normally applied dosage is 900 grams/ m³ of concrete but also the 600 grams/m³ are most effective for specific application areas.

APPLICATIONS

- Concrete elements requiring extra durability for fire resistance in the event of fire along with traditional reinforcement and/or steel fibres.
- Commercial floors on grade or on steel and wood deck
- Screeds
- Vehicle tracks
- Cladding panels
- Unreinforced pipes
- Thinwalled precast elements
- Non structural shotcrete linings
- Tennis courts
- Prebagged mortars
- Rendering work

PACKAGING

All different CONLOC types are standard produced in dissoluble paper bags of 900 resp. 600 grams NET each. A composition of 30 cardboard boxes of 18 kg is strongly shrinkwrapped and put on a standard pallet of 540 kg. Other packaging systems such as bulk and plastic bags of 900 resp. 600 grams are available on specific order.

FSI

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