



Synmix®

Our recommendations, from handling to pumping

Handling



Before adding fibres

Bekaert recommends:

- Preferably use a central batching plant mixer
- A continuous grading and sieve curve
- Sufficient fines and mortar content
- Optimum slump before fibre addition > 12 cm

Note:

- Depending on dosage and fibre type, fibres reduce the slump
- Adjust required consistency preferably with water reducing or high water reducing agents

Dosing

Plant mixers

- Introduce fibres with sand and aggregates
- Add fibres to fresh mixed concrete
- Never add fibres as a first component

Truck mixers

- Never add fibres as a first component
- Never fill drum completely with concrete in order to achieve even fibre distribution
- Speed: add fibres continuously at a maximum of 5 kg/min

Mixing

Plant mixers

No special mixing requirements in terms of speed or time of mixing.

Truck mixers

- Drum rotation speed > 12 rpm
- After addition of fibres, continue mixing the concrete for 1 min./m³ with a minimum of 5 minutes.

Mixing time depends on the efficiency of the mixing equipment

Quality control

- Workability
- Air content
- Homogenous fibre distribution in the concrete

Before using fibre concrete, a preliminary test must be done

Pumping

Hose diameter > 80 mm

For complicated pump lines or concrete compositions, a trial is recommended prior to execution
