

Synmix®

Our recommendations, from handling to pumping

Handling







Before adding fibers

Bekaert recommends:

- · Preferably use a central batching plant mixer
- · A continuous grading and sieve curve
- Sufficient fines and mortar content
- Optimum slump before fiber addition > 5 in.

Note:

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

Dosing

Plant mixers

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

Truck mixers

- · Never add fibers as a first component
- Never fill drum completely with concrete in order to achieve even fiber distribution
- · Speed: add fibers continuously at a maximum of 11 lb/min

Mixing

Plant mixers

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

Plant mixers

- Drum rotation speed > 12 rpm
- After addition of fibers, continue mixing the concrete for 45 sec/yd³ with a minimum of 5 minutes.

Mixing time depends on the efficiency of the mixing equipment

Quality control

- Workability
- · Air content
- · Homogenious fiber distribution in the concrete

Before using fiber concrete, a preliminary test must be done

Pumping

Hose diameter > 3.5 in.

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

