



Technical Data Sheet

i.tech FIBROCEM

Portland composite cement for plate manufacturing CEM II/B-LL 32,5 R

Description

i.tech FIBROCEM is a II BLL Portland Composite type of cement conforming to EN standard 197-1, specially developed to meet the needs of the manufacturers of fibrocement elements.

Composition

In compliance with the chemical composition requirements specified in EN standard 197-1, i.tech FIBROCEM has a clinker content ranging from 65 to 80% by cement mass and a limestone content ranging from 15 to 30% excluding calcium sulphate and additives, while the remaining percentage is made up of secondary constituents including microsilica.

Standard requirements (UNI EN 197-1)

CHEMICAL REQUIREMENTS*

Sulphates (as SO ₃)	≤ 3.5%
Chlorides	≤ 0.10%

PHYSICAL REQUIREMENTS*

Initial setting time	≥ 75 min
Expansion	≤ 10 mm

MECHANICAL REQUIREMENTS*

Compressive strength

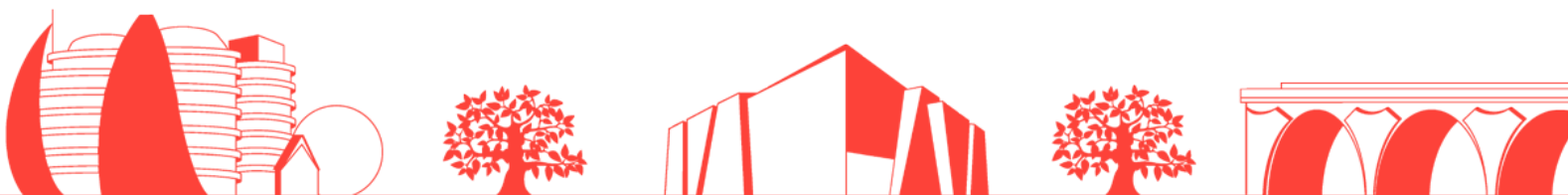
at 2 days	≥ 10.0 MPa
at 28 days	≥ 32.5 MPa

*characteristic values

Applications

On account of its special composition, i.tech FIBROCEM can be used for manufacturing:

1. flat or corrugated fibre cement plates;
2. chimney flues;
3. fibrocement pipes;
4. pipe fittings and special parts.



Benefits

i.tech FIBROCEM imparts enhanced plasticity properties to the fresh sheet during the manufacturing process and high strength to the finished products.

i.tech FIBROCEM contains microsilica: this extremely fine, reactive material reacts chemically with the hydrolysis lime resulting from the hydration of clinker, thereby decreasing permeability, reducing the risk of efflorescence formation, and improving durability of the manufactured elements.

Precautionary measures

Although technically feasible, the use of i.tech FIBROCEM in traditional concrete is to be assessed vis-à-vis the desired performance.

Packaging and storage

i.tech FIBROCEM is available in bulk.

Store in dry place.

For professional use only. The user is advised to conduct tests and assessments in order to define the suitability of the product for the intended application

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