

## Engineering

# Concretum - Your Partner for Individual Concrete Solutions

### Know-how

The Concretum experts have sound knowledge on cementitious construction materials. This specialized knowledge is based on many years of research activity at the Institute for Building Materials at the Swiss Federal Institute of Technology in Zurich (ETH Zurich). In addition, Concretum experts have gained great practical experiences from their consulting activity in the construction industry all over the world.

This includes:

- Development and implementation of concretes with special material properties
- Development and implementation of concretes according to EN 206-1 with customized mix designs
- Development and optimization of dry premix mortars with special material properties
- Fiber-reinforced concretes
- Self-compacting concretes (SCC)
- Impregnation and surface protection
- Durability, efficiency and sustainability

### Services offered

Our services are targeted to owners, engineers, contractors and onstruction material manufacturers. We offer the following consultancy services:

- Development of special concrete mix designs
- Implementation of concrete mix designs in concrete plants (including laboratory and plant tests)
- Attendance during execution, external quality control, general quality control
- Maintenance and repair of concrete structures
- Optimization of concrete properties and dry premix mortar compositions
- Sensor logging of experimental data (e.g. temperature profiles)
- Computer simulations of long-term material behaviour
- Computer simulations of complicated thermal, hygral and mechanical processes

