

Ultra High Strength Fiber Reinforced Concrete

SUQCEM

SUper high-Quality CEmentitious Material

SUQCEM is a material with ultra-high strength and excellent durability, realizing epoch-making structures.

Material characteristics

- A design standard strength of 180N/mm² is achieved.
- A reinforcing bar is unnecessary (Prestressed concrete steel is used as appropriate.).
- Complicated members can also be manufactured.
- Ultrathin member is accomplished.
- Life-cycle cost is reduced.
- Construction cost is reduced.



Special steel fibers for reinforcement



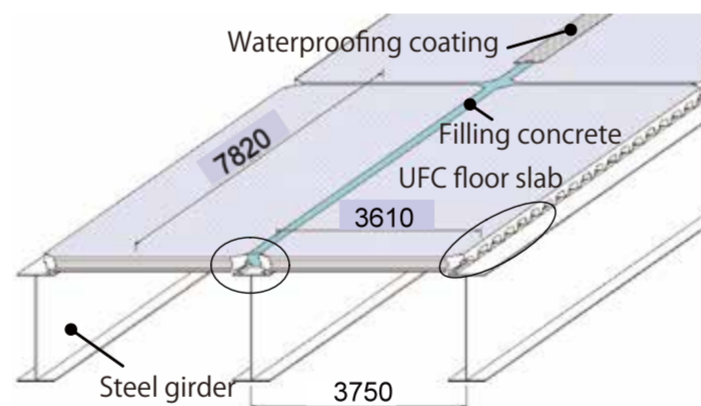
Excellent fluidity

Installation of SUQCEM floor slabs in Tokyo International Airport Runway D

- Construction cost is reduced by lowering the steel quantity in the lower structure through weight reduction of floor slabs.
- Maintenance cost is reduced by the high durability.



Placing of SUQCEM



Concept of UFC floor slab structure



Installation of the SUQCEM floor slabs

Riverside Senshu Footbridge

- A footbridge having low girder height that satisfies strict construction limits is achieved.
- A girder with a floor slab thickness of 70 mm and a girder height of 500 mm is accomplished by using SUQCEM.

Construction name	Riverside Senshu Footbridge construction
Construction site	Nagaoka City, Niigata Prefecture
Bridge type	Prestressed concrete footbridge
Structure type	3 span continuous PC rigid frame bridge
Load	Sidewalk live load
Bridge length	30.5m
Span length	26.0m
Width	Total width 4.1 m, Effective width 3.5 m



A girder (at the time of installation)



Completed bridge