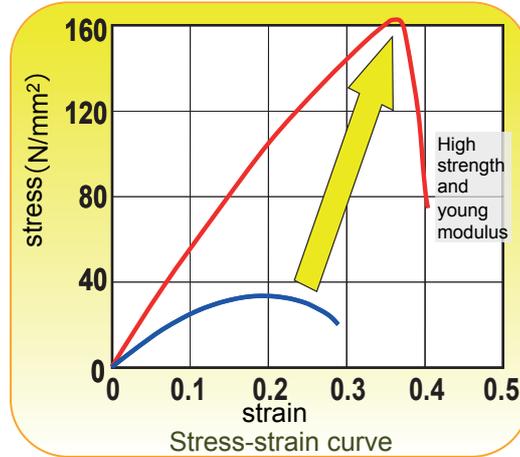




Purpose and usage

Ultrahigh strength concrete is used in the lower layer columns of high rise RC buildings. It has very high compressive strength and high density.



compressive strength test piece (φ10×20cm)

Amsler's universal tester

Scene of compressive strength test

Materials used

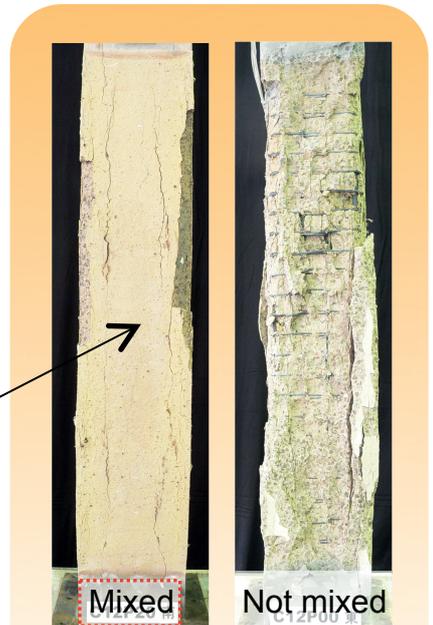
- A special kind of cement and hard aggregate is used to ensure high compressive strength.
- Expanding admixture and shrinkage reduction agents are used to reduce autogenous shrinkage.
- Synthetic fiber is incorporated to absorb thermal stress and water vapor pressure to prevent explosion of concrete.



Slump flow test



Synthetic fiber (polypropylene fiber)



Mixed

Not mixed

Test pieces after fire resistance test under load (fire endurance: 3 hours)

Authorization of Ministry of Land, Infrastructure and Transport

FUJITA acquired authorization from Ministry of Land, Infrastructure and Transport for manufacture of ultrahigh strength concrete (design strength 130 N/mm²) at two factories.