

ce200LH™
Lightweight/High-strength Concrete

Description

ce200LH™ is lightweight/high-strength concrete with the strength of normal concrete at half the density. It replaces normal concrete or composite materials for two and three dimensional precast elements.

ce200LH™ Features and Benefits

- 24hours strength >10MPa with >20MPa@28days
- Density range from 1300-1400kg/m³
- Low permeability, superior thermal and noise insulation. Thermal conductivity ~ 0.5W/mK
- Very low carbonation and chloride penetration, UV resistant, gas-tight
- Superior bonding strength to other cementitious materials and to steel
- Excellent performance under fire

Typical Uses

- Prefabricated Prefinished Volumetric Construction
- Precast two- and three-dimensional building elements
- Moisture and thermal barrier for roadways, rail-lines, runways and bridges
- Fire retarding coatings and walls
- Absorbing concrete

Advantages

- Self-leveling
- Chemical Resistant
- Epoxy-free
- High strength
- Excellent adhesion to concrete, masonry, metals
- Durable
- Lightweight
- Insulation

Mechanical Properties

The compressive strength was accordance to ASTM C109 test in a 50 mm cubic specimen.

ce200LH™ (MPa)	1-day >10	7-day >15	28-day >20
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The flexural strength was accordance to ASTM C348 test in a 40mm x40mm x160 mm prism specimen.

ce200LH™ (MPa)	7-day >2.5	28-day >5
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