

# RAPIDtect™

High early-strength concrete

## FASTER STRENGTH, ACCELERATED TURNAROUND TIMES

RAPIDtect is our high-early-strength concrete that is designed to reach specified strength sooner, delivering rapid performance gains that improve on-site productivity and help you stay on schedule.

### Project Application

RAPIDtect is a ready-mix concrete that allows for the acceleration of formwork rotation and the lifting of load-bearing concrete elements.

- The construction of floors, walls, columns, beams, and precast operations
- Flatwork applications where a fast-track construction process is required
- Civil engineering projects where a quick turnaround time is required

### Primary Features

- Mixes can be designed to achieve between 75–100% of their 28-day compressive strength within 24 hours, depending on mix design and site conditions
- High early strength for improved turnaround time and productivity
- Rapid strength gain enables the quicker removal of formwork for concrete at temperatures greater than 50°F and ambient air temperatures as low as those experienced in extreme winter conditions
- Flexibility of construction schedules in relation to the rotation of formwork
- Workability ranges between 60-120 minutes from batching to placement\*
- Contractors can significantly increase the number of daily rotations for walls, columns, slabs-on-grade, and grade beams
- Can be custom-designed for project-specific needs

\*Slump range typically between 5-7 inches



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## Additional Information

RAPIDtect mixes are engineered to develop 3,000 psi at 6, 12, 18, 24, 48, or 72 hours, based on minimum temperature of 68°F and curing as per ACI 308 requirements.

RAPIDtect gains sufficient strength within the structure to support its own weight 2 to 3 hours after placement (up to 4 hours after the concrete is batched).

After appropriate on-site checks, the formwork can be removed, provided the structure is not exposed to lateral stresses. These strengths are dependent on the concrete temperature being at 50° F and ambient air temperatures as low as those experienced in extreme winter weather conditions.

Mixes can be designed for both interior and exterior applications.