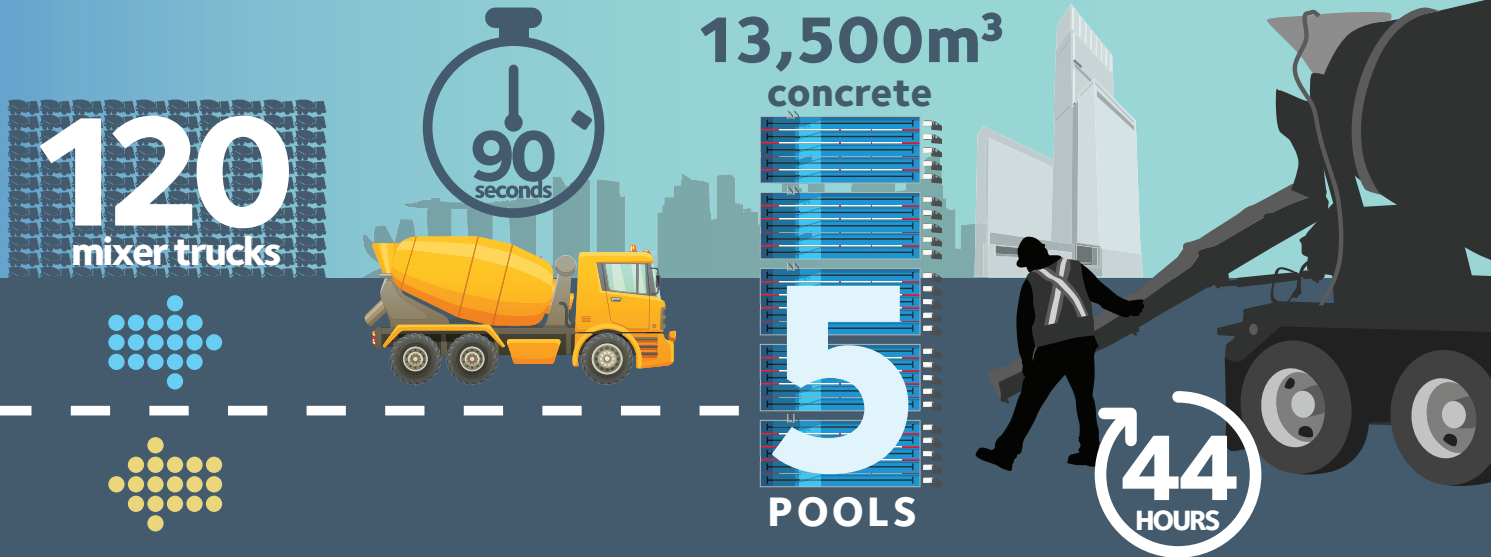




# CONCERA® Admixtures

## for Control Flow Concrete

### High-rise construction applications



FEATURED: Tanjong Pagar Center, Singapore's tallest building

**120 mixer trucks** from **10 concrete batching plants** across **Singapore**

**One** concrete truck delivery every **90 seconds**

More than **13,500 cubic metres** of concrete in foundation pour enough to fill five **Olympic-sized** swimming pools

A record-breaking **44-hour** of continuous **concrete pour** on site

## Faster Construction and Increased Profitability

Using control flow concrete can help accelerate construction schedules and reduce labor costs. This extremely workable concrete discharges quickly and pumps easily, helping to accelerate project times. There's also a minimized need for vibration due to high flow and high responsiveness to external energy, making it easy to place and finish.

### BENEFITS FOR CONTRACTORS

- Gain consistent quality, segregation-resistant concrete with high passing ability
- Save money and increase productivity
  - Easy placement and finishing
  - Less job site quality control support required
  - Minimal vibration needed
- Complete construction faster

### BENEFITS FOR READY-MIX PRODUCERS

- Offer a new differentiated, high flow concrete using conventional mix designs
- Ensure consistent, high quality concrete with little QC overhead
- Gain faster discharge, resulting in faster truck turnaround times
- Reduces pump pressures by keeping coarse angular sands from segregating in pump lines

### APPLICATIONS

- Beams
- Columns
- Decks
- Floors
- Footings
- Pilings
- Walls

## Existing Concrete Options

Conventional concrete is a known commodity, but it requires extensive manual labor and mechanical energy to place and level the concrete. On the other hand, self-consolidating concrete is self-leveling, so it's easy to pump and place, but it requires special mix designs and more on-site quality control.

## Introducing Control Flow Concrete

CONCERA® admixtures give ready mix producers the ability to create a highly flowable, segregation-resistant concrete, using conventional mix designs. The resulting control flow concrete offers slump flows that fall between those of conventional and self-consolidating concrete.

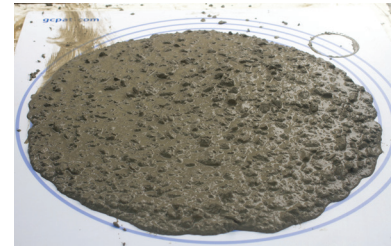
Conventional concrete



Control flow concrete



Self-consolidating concrete



Control flow concrete is a new concrete category that bridges the gap between conventional and self-consolidating concrete.

## Consistent, High Quality Concrete

CONCERA® admixtures enable ready mix concrete producers to produce highly flowable concrete with excellent compressive strength, using the same mix designs as conventional concrete. This minimizes the need for extra quality control personnel at the plant and at the job site, improving profitability for both producers and contractors. In addition, CONCERA® admixtures extend slump flow life, enabling batch adjustments at the plant and ensuring predictable performance at the job site. What's more, CONCERA® admixtures provide superior water tolerance, making the concrete less susceptible to moisture fluctuations.

Conventional high flow concrete  
without CONCERA® admixtures



Conventional high flow concrete  
with CONCERA® admixtures



CONCERA® admixtures enable the production of control flow concrete, high flow segregation-resistant concrete, using conventional mix design.

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