

Site Set™



Performance Solutions for Ready-Mix Concrete Helps Accelerate Concrete Setting Time

Overview

Concrete has setting characteristics that can be negatively affected by low ambient temperatures, typically resulting in extended setting times and increased labor costs.

Treating Ready-Mixed Concrete

Site Set™ can be used to reduce setting time in ready-mixed concrete while providing the following benefits*:

- ▶ Non-chloride. Will not promote corrosion in reinforcing steel embedded in concrete.
- ▶ Designed to reduce setting time challenges presented by pozzolanic mixes.
- ▶ Reduces in-place concrete costs and increases labor savings.
- ▶ Faster project turn-around time.
- ▶ Safe to use with all colored concrete mixes.

Curing

All concrete should be cured to maximize strength and quality, and to minimize cracking. Refer to ACI-308, "Guide to Curing Concrete."

Dosage Guidelines

To maximize effectiveness of Site Set, mix 70 revolutions on site prior to placing. The following are guidelines for Site Set dosages used for acceleration of set time of ready-mixed concrete. These are only guidelines. Variations in job conditions and materials may cause setting times to vary.

Approximate Reduction in Set Time.

AMBIENT TEMPERATURE (in Degrees F)			
Air Temperature at Times of Placement	32° - 39°f	40° - 49°f	50° - 59°f
Normal Setting Time (No Acceleration)	7 - 12 Hrs	6 - 10 Hrs	5 - 9 Hrs
Time Savings - 15 ozs / cwt*	3 - 3.5 Hrs	2.5 - 4.5 Hrs	2.5 - 3.5 Hrs
Time Savings - 25 ozs / cwt	3.5 - 6.5 Hrs	3 - 5.5 Hrs	2 - 4.5 Hrs

*CWT = 100 pounds of cementitious materials

Times based on on-going lab and field tests. Concrete set time reductions represent concrete mixes made with up to 25% fly ash replacement. All setting times tested in accordance with ASTM C403. Based on concrete placed at a 4"±1 slump. Increased slumps will result in longer set times.