

NextGen NanoComposite CEMENT ADDITIVE

ADDITIVE DECREASING SET TIME + CURING TIME OF CONCRETE. STRENGTHENING IT. REDUCING CONSTRUCTION TIMES & COSTS.

- Allows concrete to set within 8 hours
- Achieves 91% strength within 7 days compared to 60%
- Full strength is 30% stronger than normal concrete
- 66% more corrosion resistant than normal concrete



DATA POINTS:

(ADDITIVE ADDED TO 1 INCH OF INDUSTRIAL CONCRETE - BASED ON PORTLAND CEMENT):

	Concrete with CureFast Additive	Normal Concrete
Setting Time	6-8 Hours	24-48 Hours
Concrete Strength at 24 Hours	45%	16%
Concrete Strength at 14 Days	105%	88%
Concrete Strength at 28 Days	130%	100%
Corrosion Resistance	66%	0%
Water Permeability	.03 KT/M ²	.07KT/M ²
Bend Force	4 MPa	2 MPa

HOW:

Our additive works by filling in the microscopic pores of the concrete and bonding them together. This makes it faster to cure the concrete and ultimately makes it stronger. It bonds with the concrete on the sides of the pores holding it together increasing its tensile strength, (rebar at the nano level). The additive provides an extra reinforcement across the individual micropores in the concrete strengthening the entire system.

OVERVIEW:

Additive reduces setting times from 24-48 hours to 6-8 hours. That means you could lay concrete and remove the scaffolding **within a day** instead of waiting multiple days before the scaffolding is removed. The concrete mixed with our additive achieves 91% strength on day 7 that normal concrete achieves in 28 days. At 28 days, the concrete is seen to have ~130 % strength of normal concrete, making it ~30% stronger than normal concrete.

Due to its ability to fill micropores in the concrete, the additive also protects rebar and steel reinforcements from oxidation through water corrosion, ultimately keeping the concrete strong for a longer time. This means that humidity damage to the rebar is reduced by 66%. With all these properties, the concrete can be made faster, stronger, and with less long term issues.