FRITZ-PAK

NCA EARLY STRENGHT TEST

1. Purpose of the Lab Test

The following lab test evaluates the rate at which Fritz-Pak's Non-Chloride Accelerator (NCA) enhances the development of early strength in cement-based building materials, such as concrete and pool plaster.

2. Lab Test Procedure

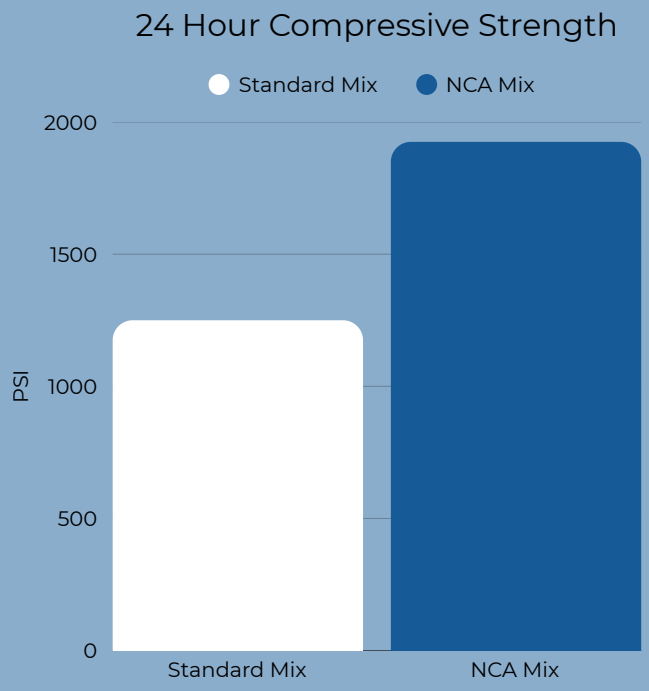
The test monitored the early strength development of two concrete mixes:

- Mix 1: A standard mix design with Portland cement, sand, and water.
- Mix 2: Identical to Mix 1, with a 1% (by weight of cement) dose of Fritz-Pak's NCA.

Each mix was poured into three cube molds and allowed to set for 24 hours.

After 24 hours, the compressive strength of the cubes was measured using a compression machine. The machine recorded the strength of the concrete in pounds per square inch (PSI).

All three cubes from each mix were tested, and the average strength of each mix was calculated to ensure the most accurate results.



3. Results

The results showed that the mix containing NCA developed 50% more strength in the first 24 hours of set.

- The average compressive strength of the standard mix was 1250 PSI.
- The average compressive strength of the mix containing 1% NCA was 1925 PSI.

4. Product Overview

Fritz-Pak NCA is a non-chloride accelerator, packaged in water-soluble bags for easy addition to the concrete at the job site. NCA does not promote steel corrosion or efflorescence. It approved by the DOT in several states across the country and meets ASTM C 494 Type C standards.

5. Learn More

If you're ready to increase the early strength development of your concrete, scan to the QR to order a case of NCA today. Don't forget to follow us online for more information about how our products can improve your concrete.