



# TOWERING ABOVE ALL OTHERS

## “ANTI-HYDRO” THE NON-CORROSIVE ADMIXTURE

Many people would like the concrete industry to believe that only the non-chloride based admixtures are safe for cold weather protection. Well, it isn't so. For over 80 years, “Anti-Hydro” has been used for cold weather protection in concrete and mortars without adverse effects on embedded metals or metal decking. “Anti-Hydro” is *the* non-corrosive admixture with a modified calcium base.

“Anti-Hydro” has been specified and used as the non-corrosive admixture for all types of concrete construction, including such prestigious jobs as:

- The Chrysler Building foundation waterproofing in 1923.
- The Sears Tower foundation waterproofing and cold weather protection of superstructure concrete on metal deck in 1969.
- Battery Park City foundation waterproofing in the early 1980s.

Why use non-chloride accelerators when they very often are not effective—especially at temperatures below freezing? “Anti-Hydro” works! It has been proven to be the most effective admixture for all types of winter work. At all temperatures. So, call the Anti Hydro Company. We have the experience and test data that supports the use of “Anti-Hydro” as a non-corrosive admixture for winter work.

## Why is “Anti-Hydro” a non-corrosive admixture?

How can an admixture containing chloride be non-corrosive? Because in the reaction of “Anti-Hydro” and cement, the chloride is combined as part of the chloroaluminate of the hydrated cement. The amount of free chloride ions (CL<sup>-</sup>) in the hardened concrete is so low that it does not contribute to corrosion. In fact, “Anti-Hydro” conforms to the chloride ion limits for corrosion protection set by ACI 318-83, “Building Code Requirements for Reinforced Concrete.”

Unlike other admixtures, whether calcium nitrates, calcium nitrites or plain calcium chloride, “Anti-Hydro” is more

than just a cold weather admixture. “Anti-Hydro” has been used in all types of structures to improve the qualities of concrete or mortar for over 80 years.

“Anti-Hydro” is a proprietary admixture combining calcium chloride and 12 other ingredients, including corrosion inhibitors. The combined effect of these ingredients improves the quality of concrete or mortar by more completely hydrating the cement; utilizing more water in the hydration process; and increasing workability. The result is concrete or mortar which is impermeable, hard, durable, abrasion resistant, and higher in strength.

The effectiveness of “Anti-Hydro” as a cold weather admixture derives from the increased heat of hydration that results from the more complete hydration produced by the reaction of “Anti-Hydro” with cement. This protects the concrete or mortar by increasing the internal curing temperatures during placing and produces high early strengths to allow the concrete or mortar to withstand the initial freeze-thaw cycles. But, with “Anti-Hydro” you get more than just acceleration—you get improved, durable, hard, higher strength, and impermeable mixes.

**For safe, effective cold  
weather construction, ask  
for our cold weather packet.**



**Products & Technology for Concrete and Masonry Worldwide Since 1904**

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