

NITROcrete CASE STUDY

Bestway Biomedical / Bio-Nuclear Waste Vault



When NITROcrete was added to their process, not only did Best-Way minimize cost and risk, but they also consistently cooled the 90-degree concrete to 50-degree batches.

**Every pour.
Every time.**

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JOB

In the shadow of the Rocky Mountains, Best-Way Concrete faced a mountainous challenge of their own in constructing a biomedical and bio-nuclear waste vault for a large hospital in west Denver. The job required pouring concrete for 4-foot thick vault walls.

CHALLENGE

As if the mass concrete wasn't challenging enough, the bio-nuclear waste vault also demanded adherence to stringent specifications for density to prevent thermal microcracking. When it comes to biomedical and bio-nuclear waste, no one wants to screw up. No leaks. No botched batches. Add to this, the unseasonably warm temperatures radiating through Denver in early September, and Best-Way could have faced a real problem. Uncooled loads were batching in the 90s, when they needed to batch in the 50s.

With these challenges for mass pouring, high temperatures, and strict density requirements, Best-Way went to the market to find a tool for the necessary outcomes for the vault; however, they ran into the frustrations that many concrete contractors share: most concrete cooling products on the market simply do not offer the precision or safety required for such a rigorous and exacting project.

SOLUTION

That's when Best-Way discovered NITROcrete, a safer way for precision-cooling concrete, even to the difficult parameters required to contain bio-medical and bio-nuclear waste. With the NITROcrete admixture for cooling, Best-Way delivered loads that registered temperatures in the 40s, without affecting any other concrete performance parameters. The test pour alone exceeded the efficiency of all previously tested cooling methods in the sweltering Denver heat.

NITROcrete allowed Best-Way to execute a challenging project while minimizing liability and cost.

NITROcrete's precision helped Best-Way execute a challenging project while also ensuring safe containment of biomedical and bio-nuclear waste near a population-dense area.

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