



US SPEC PROJECT PROFILE

Northwater Treatment Plant

US SPEC Products: NA-100

Location: Golden, CO

Date of Completion: 2023

US SPEC Products

NA-100

High Flow, Bleed Resistant, Non-Aggregate, Non-Shrink PT Grout



Denver Water's North System brings snowmelt from the mountains through reservoirs, pipelines and a treatment plant to produce clean and great tasting water. Denver Water is upgrading and modernizing the northern portion of their water system.

Denver Water's North System was constructed in the 1930s when the surrounding area was mostly farmland. Now, 80 years later, the North System is reaching the end of its lifespan. The North System's pipelines and valves need to be replaced. The new Northwater Treatment Plant will feature updated technology, and the existing Moffat Treatment Plant will be repurposed into a distribution site.

The new facility will be capable of treating up to 75 million gallons of water per day. When finished, the system will be more resilient and adaptable to changing demands for water now and in the future.

US SPEC's NA-100 was used on two new 10 million gallon water tanks. These tanks are post-tension design, and most of the two round storage tanks

will be buried underground. The grout filled the annular space between the conduit and the steel tendons. This adds a layer of protection against corrosive elements reaching the tendons.

NA-100 was mixed using a colloidal grout mixer. This allows for proper mixing and agitation of the grout prior to pumping. The grout was then pumped through the lines. There are a series of check valves along the tendons to ensure the grout is moving through as intended.

The contractor liked the fluidity of the material as well as its long open time. This is beneficial if any issues with the equipment arise during the grouting process.

