

CASE STUDY



PRECISELY ENGINEERED. REAL-WORLD TESTED.

CUSTOMER:
Nash Plumbing & Mechanical

INDUSTRY:
Plumbing

MATERIALS:
Corzan CPVC pipes by
Charlotte Pipe, with fittings
by IPEX and Sioux Chief

INSTALLATIONS:
2024: Headquarters
2003: First Project with
Corzan CPVC

New HQ Highlights Longstanding Partnership with Corzan® CPVC

Nash Plumbing & Mechanical trusts Corzan Material & Piping Solutions so much that 100% of the plumbing in their new headquarters is made of Corzan CPVC.

Nash is one of the largest plumbing and mechanical contractors in the U.S. Operating throughout the Southeast, the company manages major construction projects ranging from Department of Defense facilities to healthcare and hospitality buildings. Commercial construction accounts for the majority of its annual business.

An important part of Nash's ability to bid competitively is its deep understanding and use of Schedule 80 Corzan CPVC for its plumbing projects. Corzan CPVC is durable under harsh conditions and stands up to chemicals such as the chlorine in potable water. Because it is naturally resistant to corrosion and easy to install, Corzan CPVC has helped Nash speed up product installation times without driving up costs.

Nash has installed numerous projects in the Southeastern U.S. with Corzan CPVC, including Shands Hospital. So, when Nash outgrew their existing headquarters and needed to upsize in 2022, Corzan CPVC was the obvious choice for all the building's plumbing. "From the tie-in to the tap," the entire system is made from Corzan CPVC. "It's much easier to work with a single material," explained Greg Ellis, VP of Operations. "There's no worry about fit at joints or maintaining the different materials on different schedules. And we highly recommend the solvent welding process. Done right, it's extremely fast and secure."

The 45,000-square-foot facility contains 20,000 feet of Corzan CPVC pipe and fittings. The installation process was fast and easy, and since the installation, there have been no leaks and no major maintenance needed.



We wanted to make sure we put the best material into our headquarters, and I think we did that with Corzan CPVC.

Greg Ellis,
Vice President of Operations
Nash Plumbing & Mechanical





Corzan CPVC is inherently corrosion-resistant, not susceptible to pitting like copper piping, and is more affordable than stainless steel. Correctly installed systems made of Corzan CPVC can deliver quality performance for decades with minimal maintenance.



More than a Material Supplier

Setting Corzan CPVC far and above the competition for Nash has been the relationship formed between the two companies through Lubrizol's accessible, expert support. "One of the biggest questions for me is always, 'Will someone answer the phone if I need to call them?' Any time I've needed something, my guy at Corzan CPVC has been available. It's made all the difference for us." The availability of quality assistance at Corzan CPVC helped Nash quickly close the knowledge gap when first using CPVC over 20 years ago. Taking on a large project with an unfamiliar material could be daunting, but with expert guidance, Nash quickly became an authority on CPVC plumbing.

The Benefits of Corzan CPVC for Plumbing

Like all plastic piping, Corzan CPVC is inherently resistant to pitting, scaling and corrosion, unlike metal. This minimizes maintenance while reducing the likelihood of leaks from corrosion-based cracks. "The last thing I want to be doing at our office is fixing or repairing plumbing systems," noted Ellis. "What's worse than having a client come in and seeing ceiling tiles missing or damaged

because your plumbing is dripping? It would be hard to trust your project to a company that can't reliably pipe their own headquarters." Corzan CPVC complies with NSF/ANSI/CAN 61's leachate testing criteria under all conditions and temperatures. Copper, by contrast, can leach metallic contaminants if the water supply's pH falls below 6.5. Corzan CPVC also resists degradation from all types of water, no matter how hard or soft, as well as the growth of biofilm, unlike metal and some other plastics.

What makes Corzan CPVC more reliable than many plastic alternatives? Approximately 40% of the bonding sites along the polymer chain are filled with chlorine atoms. This additional chlorine delivers increased temperature and chemical resistance without need for sacrificial antioxidant additives. Corzan CPVC also stands up to the chlorine, chlorine dioxide and chloramine commonly used in water disinfection, which some studies have shown can degrade the more expensive polypropylene random copolymer with modified crystallinity and temperature resistance (PP-RCT).

Better protection, a long service life, faster, simpler installation and a competitive price. These qualities drew Nash to Corzan CPVC and have kept the partnership alive for decades.



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