

Plasti-Bond®

A ROBROY Brand

A Plasti-Bond Case Study

BHElectric, Inc. Finds a Trusted Partner in Plasti-Bond for Corrosive and Hazardous Environments

“There’s no room for product failure when you’re dealing with systems that vital.”

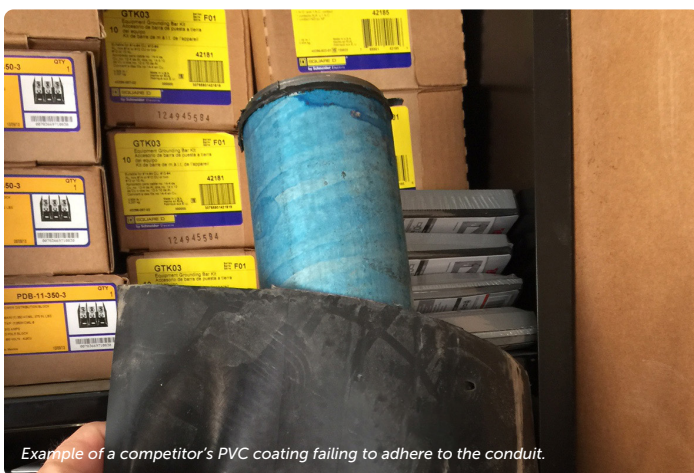
Tough Environments Means Failure Isn’t an Option

BHElectric, Inc., led by owner and president Brian Helton, is a California-based electrical contractor serving water, wastewater, and industrial clients across the state. Their projects range from new facility construction to ongoing system upgrades and maintenance—often in aggressively corrosive, high-moisture, or high-temperature environments.

“We work in the darker bowels of the industry—highly corrosive environments like water and wastewater treatment facilities,” said Brian. “There’s no room for product failure when you’re dealing with systems that vital.”

Before switching to Plasti-Bond, BHElectric struggled with subpar PVC-coated conduit systems. Poor coating adhesion that failed during installation created risk, rework, and frustration.

“We were using another brand, and we were just completely unhappy,” Brian explained. “The quality control was dismal at best, and the PVC coating was literally falling off the conduit as we were installing it. That contradicts the whole point of having coated conduit in the first place. If it’s failing during install, how can we trust it in the field?”



Example of a competitor's PVC coating failing to adhere to the conduit.

Plasti-Bond: A Higher Standard of Excellence

The turning point came when Brian was introduced to Plasti-Bond by a local sales rep and invited to tour Robroy’s manufacturing facility in Gilmer, Texas.

“That’s when everything changed for us,” Brian opined. “We saw the factory, the testing lab, and how much pride goes into every piece of conduit,” he said. “We were amazed. It was obvious from the beginning that Plasti-Bond was a different caliber of product.”

Plasti-Bond offers a complete PVC-coated conduit system, including conduit, fittings, elbows, couplings, and specialty parts, all designed to protect critical electrical systems from corrosion, UV, chemicals, moisture, and impact. Every component is manufactured to the highest standards in the industry and works together as a seamless, code-compliant system.

“Every component is manufactured to the highest standards in the industry...”

Installation Confidence Today, and Years Down the Line

BHElectric now uses Plasti-Bond products on both underground and above-ground installations. Though some installs are fully exposed to the elements and others are encased in concrete, the performance of the product is consistent across every application.

“We’ve gone back years later to check on sites where we used Plasti-Bond, and the conduit looks brand new. No corrosion, no wear. It holds up better than anything else out there,” Brian said.

From a contractor’s standpoint, that kind of reliability minimizes rework and replacement down the line, eases installation frustrations, and boosts their reputation. Brian also notes that Plasti-Bond helps contractors stay efficient on the jobsite.

“With Robroy, we don’t have to chase the threads, patch cracked coatings, or waste time getting things to fit. Everything just goes together the right way the first time,” Brian said. “That makes our jobs easier.”

For BHElectric’s clients—municipal utilities, industrial facilities, and public infrastructure—downtime is costly and safety is non-negotiable. The choice to use Plasti-Bond isn’t just about easier installs, it’s about system integrity over decades.

"This type of work is expensive and labor intensive. But our customers are investing in longevity. We can't afford to install something that fails two years later," he said. "When I use Plasti-Bond, I know I'm delivering a system that lasts. That's what makes our customers happy, they can be confident long after we leave the site."

End users also benefit from Plasti-Bond's adherence to third-party standards, such as ETL PVC-001, which designates superior coating performance and overall service life for PVC-coated conduit, and UL 1203 on hazardous location fittings, which demonstrates safety and reliability in hazardous areas. These and other standards help ensure spec, code, and inspection requirements are met without issue.

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Product Education That Makes a Difference

Brian also attended Corrosion College, Robroy's intensive training on corrosion science, prevention, and proper installation practices.

"That training introduced me to the actual science of corrosion resistance: the properties, the metals, how they all work and don't work together, how the environments that we're putting them in cause corrosion, and how to avoid it. I brought that knowledge straight back to my team," Brian shared.

With a tightly coordinated crew, Brian was able to integrate that learning directly into day-to-day operations, ensuring that every Plasti-Bond installation meets warranty and performance standards.



Conclusion

For BHElectric, the decision is easy.

"When your customer wants reliability, you have to use the best." Brian concluded. "And Plasti-Bond is second to none. Their product is readily available, their customer service is excellent, and their quality is 100%."

Whether buried beneath concrete or exposed to the elements, Plasti-Bond provides long-term protection and real-world performance that contractors can trust and end users can count on.

TRUSTED TO PROTECT WHAT MATTERS MOST

In corrosive environments, electrical systems need more than standard conduit — they need proven protection. Plasti-Bond delivers premium PVC-coated conduit that's engineered to last, helping facilities avoid premature failure, costly downtime, and safety risks. Backed by third-party verification, Plasti-Bond is the trusted choice when performance, durability, and protection matter most.

A close-up photograph of three lengths of black PVC-coated conduit. The conduits are stacked, with the top one showing its red interior. A white label is attached to the middle conduit, featuring a UL logo and the text "UL VERIFIED 1203 1/2\"/>