

1

Reason One

PERFORMANCE MATTERS!

Seven reasons why you should trust the proven value of Plasti-Bond PVC-coated galvanized rigid conduit.

Reason One:

Plasti-Bond ensures premium corrosion protection without a premium price.

You deserve the corrosion protection you pay for.

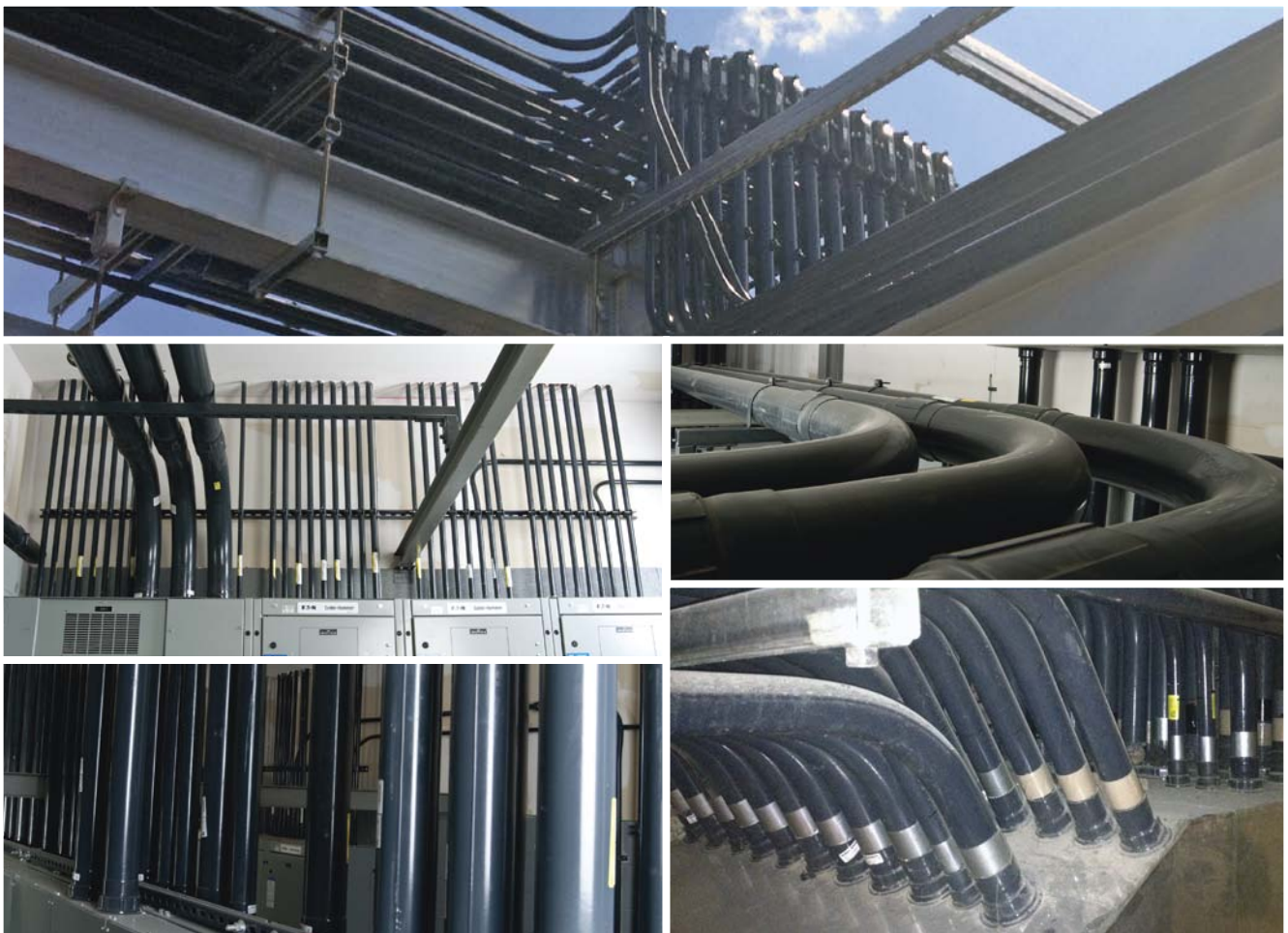
ETL PVC-001 Verified Plasti-Bond has been independently proven to provide ten or more times the protective product service life when compared to other brands – and at no added cost.

Ten times the proven protection from the high cost of corrosion damage.

AT NO ADDED COST.

Ten times the proven protection against huge risks from premature product or system failures caused by subpar conduit quality.

AT NO ADDED COST.



Why Adhesion is Critical

2

Reason Two

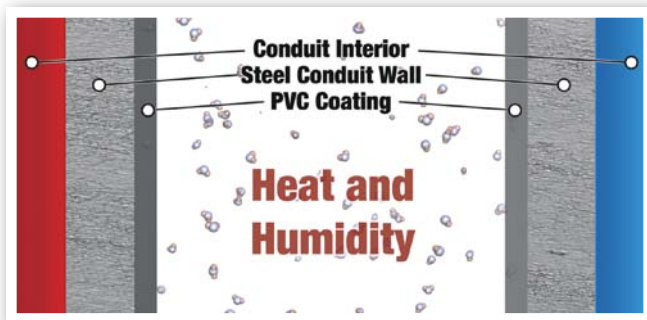
PERFORMANCE MATTERS!

Plasti-Bond works because its coating adheres. Not all brands can make that claim.

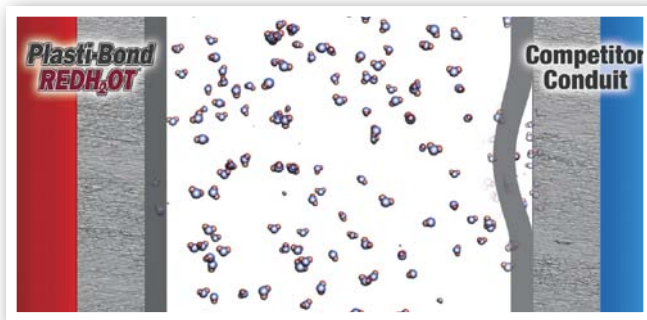


When the PVC coating on galvanized rigid conduit adheres – the product will successfully protect the steel substrate from corrosion damage.

When the PVC coating doesn't adhere properly the product will fail. It's as simple as that.



All coatings are permeable, but those that have a strong adhesive bond will not allow the substrate to be exposed to the environmental elements.



This graphic illustrates the tendency of the competitive coating to lose adhesion. The result is that moisture penetrates, creates voids or pockets, and puts the metal substrate in direct contact with corrosive elements.



This pocket actually accelerates corrosion because it traps the contaminants between the coating and substrate. The life span of coated conduit becomes limited and failure is only a matter of time. Don't allow this to happen to your conduit.



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PERFORMANCE MATTERS!

Plasti-Bond works because its coating adheres.
Not all brands can make that claim.

Although there's a clear distinction between success and failure, **not all manufacturers have achieved a consistent level of reliable bonding.**

Plasti-Bond has.

Need proof? Seeing is believing.

In side-by-side performance comparisons these two conduit samples were exposed for the same number of test hours in boiling water.

Why boiling water?

Because the single most important measure of product success is whether or not the PVC coating will adhere to the steel substrate of the

conduit, thereby protecting it from corrosion. ASTM-accepted accelerated tests in environments such as the boiling water clearly differentiate which coatings perform best. Plasti-Bond has been proven reliable even in such extreme environments, so imagine how well it will perform in diverse on-the-job applications.

When cuts are made in the PVC of the competitor's sample — and the tab of coating is then pulled with pliers — the adhesive bonding fails entirely and separates completely from the steel substrate it is supposed to protect.



FAILURE

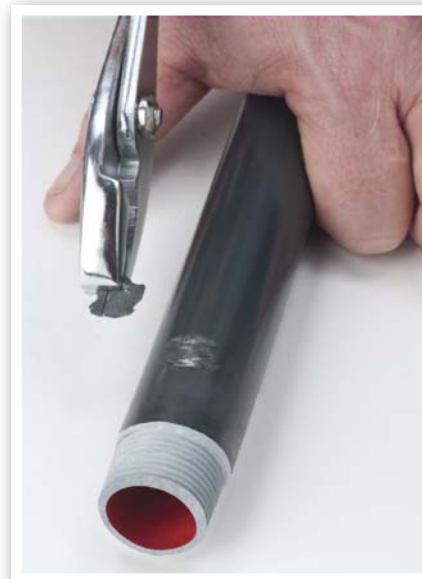
Why Adhesion is Critical

PERFORMANCE MATTERS!

Plasti-Bond works because its coating adheres.
Not all brands can make that claim.

Plasti-Bond REDH₂O^T

When the same procedure is applied to Plasti-Bond (right), the PVC breaks away from itself and **does not expose the substrate** – thereby preserving the all-important bond that fights corrosion.



SUCCESS



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3

Reason Three

PERFORMANCE MATTERS!

Plasti-Bond is both UL6 listed and ETL PVC-001 Verified. Others are not.

All major brands of PVC-coated galvanized rigid conduit meet exactly the same standards established in UL, and are authorized to carry an identical UL listing label for PVC-coated galvanized rigid conduit.

However – not all brands are ETL PVC-001 Verified.

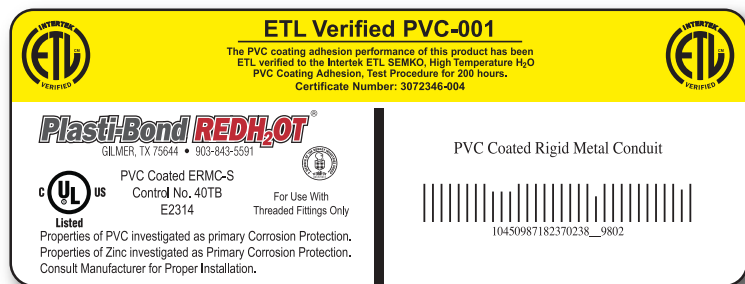
Plasti-Bond is. Others are not.

Why is this of critical importance?

UL6 is an important standard that addresses safety for rigid metal conduit. It is not, however, a performance standard.

ETL PVC-001 Verified is an internationally recognized listing based on performance evaluations and on predicting service life.

It is on the basis of independent, objective product comparisons by ETL that Plasti-Bond has been proven to provide ten or more times the protective service life of brands that are not authorized to carry the ETL PVC-001 label.



Here are some additional facts that you should know:

- ETL PVC-001 validates the coating performance of PVC-coated galvanized rigid conduit based on ASTM D870 and ASTM D1151/ASTM D2247 – the accepted ASTM tests for predicting product service life. These tests are not intended to replicate a specific environment. Rather, **they are designed to predict the service life** of a coating under the two most common conditions that affect adhesive bonds: heat and humidity.
- Plasti-Bond re-earns its ETL PVC-001 label on a quarterly basis by repeatedly and successfully passing the stringent performance tests required for verification.
- ETL verification is an “open standard”. Testing is open to any manufacturer who believes that the quality of its protective coating can consistently meet ETL verification requirements. If you do not see an ETL label on a brand of PVC-coated galvanized rigid conduit, you have every right to ask “why not?”

4 Reason Four

PERFORMANCE MATTERS!

Risk of premature PVC-coated galvanized rigid conduit failure.

Specifying ETL PVC-001 Verified Plasti-Bond protects you, and those to whom you are responsible, from the enormous risk of premature PVC-coated galvanized rigid conduit failure.

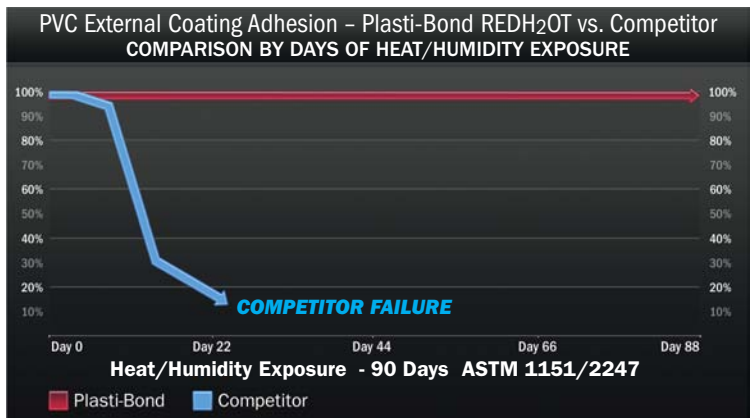
The risk of premature product failure can have an enormous impact on costs including downtime, safety, legal and environmental.

That fact needs to be addressed in job specifications by written mandates requiring ETL PVC-001 Verification.

To review the vital reasons why:

- All major PVC-coated conduit brands comply with standards as established by UL6.
- There exists only one definitive difference between brands of PVC-coated galvanized rigid conduit: ETL PVC-001 Verification of product performance and predictability of service life.

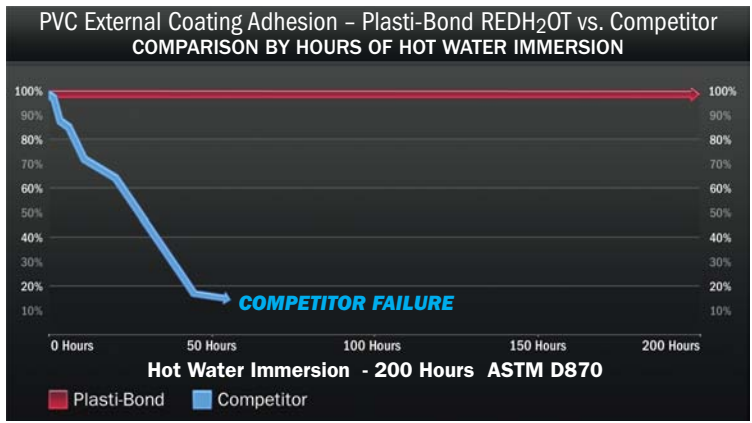
Therefore, if reliability of product service life is important to engineering design, avoidance of costly or catastrophic product or system failure, it should be assumed in the specification process that only PVC-coated galvanized conduit carrying the ETL verification label will meet the standards established by all relevant ASTM tests, including those predicting product service life.



Graphic representation of ETL test results of Plasti-Bond compared to competitor.

ETL quantified the adhesion performance of the two products in the same heat and humidity test at 150°F and 95% relative humidity. Plasti-Bond testing was stopped after 90 days with zero adhesion loss.

The competitor's coating began to delaminate after 9 days and had complete delamination at approximately 20 days.



In the hot water immersion test, the competitor's coating adhesion failed almost immediately.

Plasti-Bond coating was tested for 200 hours with zero failure.



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5

Reason Five

PERFORMANCE MATTERS!

Unsurpassed manufacturing explains why Plasti-Bond has "No Equal."

Not all PVC-coated galvanized rigid conduit is created equal.

As the original pioneer of this product, Plasti-Bond has maintained and evolved its position of technological leadership in many key ways:

Unmatched bonding adhesion for unmatched conduit protection.

As one of the original authors of NEMA RN-1 our company thoroughly understands and conforms to the voluntary, non-regulated guidelines of this standard. This is especially true with regard to how we prepare the zinc surface of conduit to enable a degree of coating adhesion not achieved by other manufacturers.



In accomplishing this we remove surface oxidation and, through a special technology called **AEP (Adhesion Enhancement Process)**, we rough the outer surface of the zinc without harming or eroding it.

In that way, not only do we comply with NEMA RN-1, but we exceed it. Our hot dipped galvanized conduit and fittings outperform the competition because we have prepared the surface of our products for maximum bonding reliability.



Manufacturing Performance!

Nothing can touch our threads!

Our multimillion dollar **ProTECH™ system provides our conduit threads with unsurpassed corrosion protection.**

After PVC coating of the conduit, the automated process begins with a trimming operation to remove excess PVC from the conduit ends.

Next is mechanical surface preparation of the previously chemically cleaned conduit threads. This is critical because surface preparation is the key to any good bond.

Then, the clean pipe threads are hot-galvanized using specially designed equipment, including 3-axis robotic arms.

Through the final manufacturing process **nothing touches the zinc coating of our threads!**



**Our manufacturing process is open to our customers.
Come see for yourself and compare to what our competitors don't do.**



**Plasti-Bond
“No Equal”**



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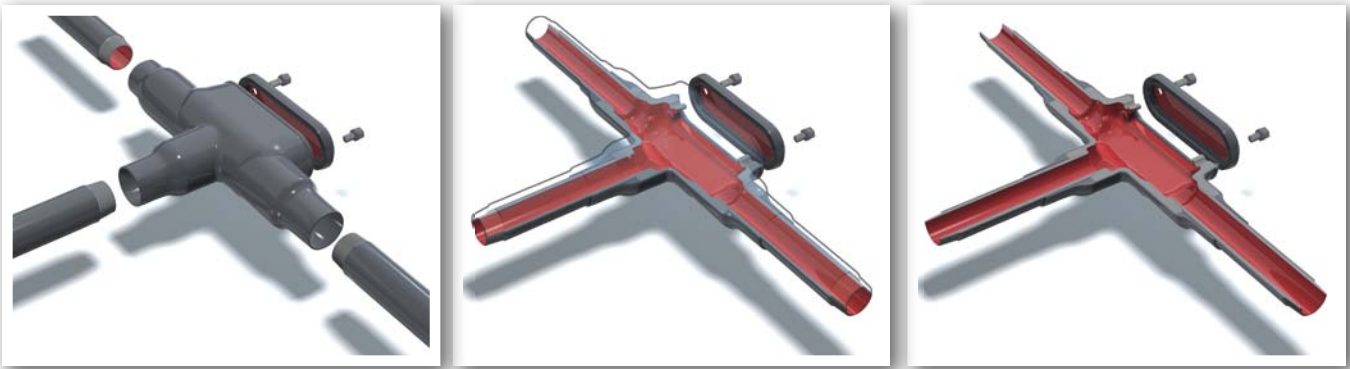
6

Reason Six

PERFORMANCE MATTERS!

Plasti-Bond provides you value-added differentiators.

Plasti-Bond is not simply a product — it is a key link in a system designed to beat the high cost of corrosion damage. The following graphic illustrates how the beneficial differentiators of Plasti-Bond provide added value in making the system work.

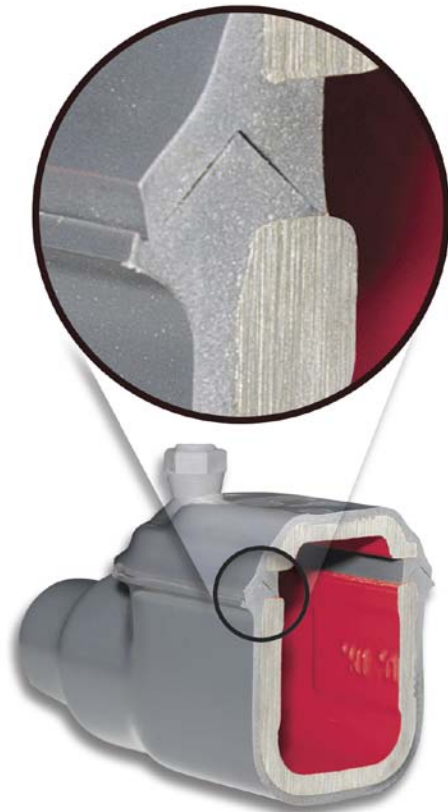


OUR UNIQUE V-SEAL

Our V-Seal® gasket — with special interlocking “V” groove — is the most effective way of preventing corrosion damage by sealing PVC coated Form 8 Conduit Bodies, sizes 1/2" to 2".

WANT MORE GOOD NEWS?

You won't have to pay more for the best available protection than you would for a standard fitting. It's all part of the unequalled value provided to you through Plasti-Bond.



Value-Added Benefits

Chemical resistance...

...to a wide range of corrosive chemicals, preventing exposure of the metal to damaging environments.

UV stabilized PVC formulation...

...developed exclusively for us to dramatically reduce UV degradation in outdoor applications.

Clamps designed for PVC-coated conduit...

...includes coated pipe straps, clamps and clamp back spacers that are specially designed to fit Plasti-Bond for ease of installation.

V-SEAL® Form 8 fittings...

...patented, unique interlocking V-groove covers effectively seal out corrosive environments.

PVC sealing sleeves...

...sized to fit tightly over the coated conduit when assembled, thereby keeping corrosive elements from the threaded joints.

Molded ribbed couplings...

...allow for easier installation of the conduit system by providing enhanced gripping.

Comprehensive line of factory nipples and elbows (standard and special radius)...

...ready for quick shipment and designed to provide lower labor costs via faster installation.

Installer Certification...

Proper installation is essential to ensure the highest possible performance and provide maximum life for a conduit system. Only installers who are able to present authorized credentials of having passed our instruction and examination are officially certified to install Plasti-Bond's top quality products. Installer certification is free of charge and available at the job site, contractor's shop, factory, or wherever it is convenient to you! Contact Plasti-Bond at **903.843.5591**.

Five year Plasti-Bond warranty...

...for peace of mind.

Polyurethane coatings...

...specially formulated to protect the interior of our conduit from corrosion and chemicals while also allowing optimum durability and friction-reduced ease of wire-pulls.

PVC gasket seals...

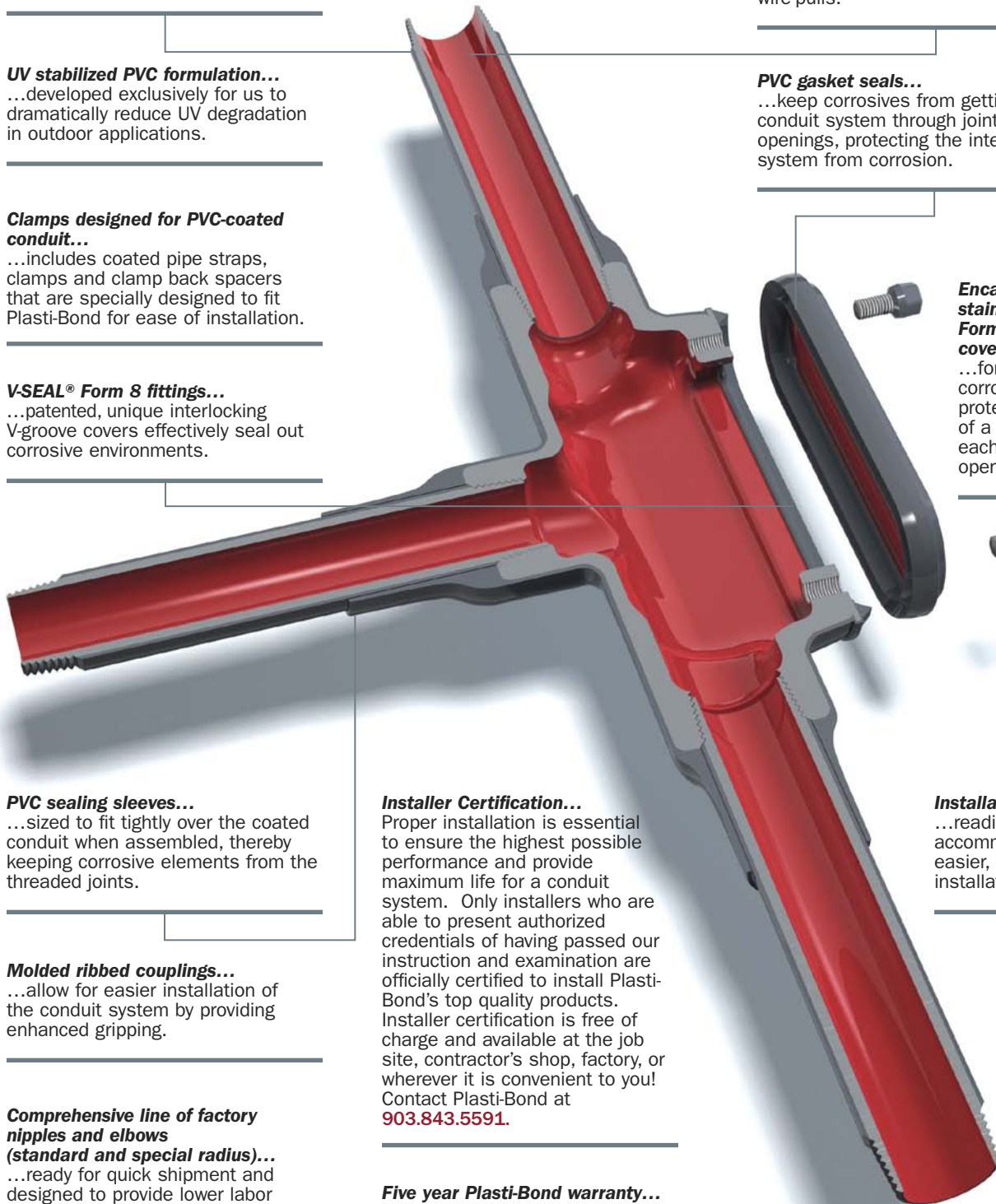
...keep corrosives from getting into the conduit system through joints and openings, protecting the interior of the system from corrosion.

Encapsulated stainless steel Form 8 conduit cover screws...

...for maximum corrosion protection by way of a seal around each screw opening.

Installation tools...

...readily available to accommodate faster, easier, damage-free installation.



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7

Reason Seven

PERFORMANCE MATTERS!

Just look for the combined ETL PVC-001 and UL label and you'll know you're protected!

Use Plasti-Bond and you will benefit from objective, independently-proven anti-corrosion performance. Just look for the combined ETL PVC-001 and UL label and you'll know you're protected!

Myths & Truths

There are myths about PVC-coated galvanized rigid conduit. There are truths about PVC-coated galvanized rigid conduit. Here's how you can separate fact from fiction.

Myth

All PVC-coated galvanized rigid conduit is the same. As long as it's UL-listed that's all that matters.

Truth

All PVC-coated galvanized rigid conduit is NOT created equal.

All major brands of PVC-coated galvanized rigid conduit do in fact carry the UL6 listing. That's great. It's important to know, however, that this is a safety-related listing. It is NOT a performance or service life listing. In fact, UL6 does not differentiate between the performance of coatings. It considers zinc and PVC as equal alternatives and does not suggest the appropriateness of a specific coating for a specific environment.

The truth is: Plasti-Bond also carries the ETL PVC-001 verification label demonstrating that in performance, the reliable, protective service life of Plasti-Bond is at least ten times longer than other brands. ETL is a regulated standard that is re-tested every quarter to verify performance. Ongoing compliance assures a consistent quality in the manufacturing of our product.

Plasti-Bond gives you the peace of mind made possible by carrying BOTH the UL and ETL labels – at no added cost to you.

Myth

ETL testing evaluates the performance of PVC-coated galvanized rigid conduit in boiling water. That isn't relevant because no one boils conduit in real applications.

Truth

The testing methods chosen by ETL are nationally recognized ASTM accelerated life cycle test methods to evaluate the effectiveness of a coating under the two most common environmental conditions of heat and humidity. These are not application tests. They are accelerated tests to compare two or more products in the same environment at the same time.

In hot water immersion other brands' coating began to fail within the first hour and completely after 50. Plasti-Bond's coating maintained its integrity for 200 hours. In the humidity test, the other coatings began delaminating after 9 days. Plasti-Bond's coating showed no adhesion loss even after 90 days.

These were exact comparisons.

The superior PVC coating is clear.

Plasti-Bond.

Myths and Truths



Myth

Plasti-Bond paid for ETL testing so the results are marketing hype.

Truth

The first part is true. Plasti-Bond paid for ETL testing.

Just like every manufacturer pays for product testing or UL testing and listings.

As to marketing hype:

- ETL is one of the foremost recognized testing and evaluation services in the world. Its results and verifications are internationally accepted as objective standards for diverse industries. Even our competitor accepts the importance of ETL because many of the other products manufactured by its parent company carry the ETL label.
- Our competition is welcome at any time to submit their PVC-coated galvanized rigid conduit for similar evaluation. ETL PVC-001 is an open standard. We have to assume that the only reason others do not have an ETL label is because their product does not meet the minimum thresholds for service life requirements.

Not all PVC-coated galvanized rigid conduit is created equal.

If product performance and service life are important to you... look for the ETL PVC-001 Verification label.

If your PVC-coated galvanized rigid conduit doesn't carry an ETL PVC-001 label you risk premature product failure and the consequences of costs related to downtime as well as safety, legal and environmental issues.

Plasti-Bond... “No Equal.”



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