

Morrow-Meadows Corporation selects Plasti-Bond PVC-coated conduit for Carlsbad Desalination Reverse Osmosis Project

THE CHALLENGE:

Morrow-Meadows Corporation, the premier electrical and data communications contractor on the West Coast, recently faced a challenge to protect electrical wiring equipment at the Carlsbad Reverse Osmosis Desalination Project, located on the coast of California.

Reverse osmosis (RO) is a process that enables desalination --- the removal of salt from seawater. Water permeated via RO is more corrosive than water produced by thermal distillation due to high dissolved salt levels, particularly chlorides.

In addition to the process itself, exposure to salt air because of the proximity of the Carlsbad plant to the Pacific Ocean, heightened the risk of costly damage from corrosion.

Consequently, Morrow-Meadows Corporation concluded that a highly corrosion-resistant product such as PVC-coated galvanized rigid conduit was essential to reliable protection of equipment wiring.

THE SOLUTION TO THE CHALLENGE:

Although the Morrow-Meadows team determined that PVC-coated conduit was the right choice for the Carlsbad Reverse Osmosis Desalination Project, their engineers focused on determining whether or not all available brands offered the same level of product service life and performance reliability in a corrosive environment.

What they learned was that not all PVC-coated conduit is created equal.

Specifically: all manufacturers of PVC-coated galvanized rigid conduit meet precisely the same UL standards and are authorized to apply the UL label.

However, only some brands have met the demanding performance criteria authorizing manufacturers to carry the ETL PVC-001 label. ETL-Verification differs from UL certification because it predicts product service life. ETL PVC-001 validates the coating performance of PVC-coated galvanized rigid conduit based on ASTM D870 and ASTM D2247, the two accepted ASTM tests for predicting product service life of a coating under the two most common conditions that affect adhesive bonds: heat and humidity.

Why is the ETL label significant for Morrow Meadows?

Because independent, third party testing proves that brands of PVC-coated conduit that meet ETL PVC-001 standards provide a reliable corrosion-fighting service life ten or more times longer than brands that have not passed ETL performance evaluations.

This fact ultimately led Morrow-Meadows Corporation to specify Plasti-Bond PVC-coated conduit, thereby eliminating the many negative consequences and costs of premature product failure due to corrosion.

Engineers at Morrow-Meadows have concluded that, only by having a true corrosion prevention strategy can they realize the benefits of prevention versus repair and replacement. To make such a strategy work, it is necessary to accept that some products provide superior corrosion resistance, at a competitive cost, proving users the protection they have paid for.

To learn more about Morrow Meadows visit:

<http://www.morrow-meadows.com/>

To learn more about ETL label for Plasti-Bond PVC-Coated Conduit visit: <http://plastibond.com/technical-info/support-documentation/significance-of-etl>

PHOTOS:



Photo Caption: Corrosion at a standard water facility. Corrosion factors were significantly more intense at the Carlsbad Reverse Osmosis Desalination





Photo Caption: Morrow Meadows installed Plasti-Bond PVC-Coated conduit to protect electrical wiring running to critical equipment, ensuring that the electrical system at the Carlsbad Reverse Osmosis Desalination Project would be protected from corrosion over a long-term service life.

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