Post-Tech®
PTI Impregnation System
Corrosion Protection System for Bonded Post-Tension Tendons
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The Post-Tech PTI Impregnation System is specifically engineered to mitigate corrosion in bonded post-tension tendons. The impregnation material is applied under pressure and travels along the length of strands to mitigate corrosion in tendons with grout defects such as segregation, soft grout, chloride contamination and voids.

- Post-tensioned bridges
- Other post-tensioned structures
- Grouted stay cables
- Suspension and hangar cables
- Prestressed concrete structures
- Buttonhead and paper-wrapped tendons

The Post-Tech PTI system uses the naturally occurring interstitial spaces in high strength steel strands to deliver a formulated low viscosity dual action hydrocarbon silicon polymer resin.

- Displaces moisture from the steel surface
- Forms a protective barrier on any exposed steel surfaces
- Impregnates the surrounding grout for an additional barrier to moisture and oxygen.
**Potentiostatic Testing**

Laboratory testing was also conducted to verify the performance of the Post-Tech PTI Impregnation System on post-tension strands in chloride contaminated and chloride-free grout.

Post-Tech PTI treated and untreated lollipop samples were subjected to a one hour potentiostatic corrosion test. The test automatically adjusts the applied current to maintain a constant steel potential of +200 mV versus a silver-silver chloride reference cell. In this test, resistance to corrosion is measured by the reduction in current passed. The Post-Tech PTI treated samples passed significantly less current than the untreated controls.
Innovative Solutions for Corrosion Problems™

Vector Corrosion Technologies

Vector has earned numerous awards and patents for groundbreaking innovations in corrosion mitigation technologies and services.

- Galvanic Protection Systems
- Impressed Current Cathodic Protection
- Electrochemical Treatments
- Post-Tensioned Services

Post-Tech Services

Vector specializes in the investigation and rehabilitation of bonded and unbonded post-tensioned concrete structures. Our Post-Tech services include:

- Non-destructive Evaluation
- Moisture Testing / Corrosion Evaluation
- Cable Drying
- PTI Impregnation System
- Grease and Grout Injection
- Tendon Repair and Replacement

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