

TRENCH BREAKER SYSTEM

Specially formulated foam to prevent cathodic protection shielding



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Often referred to as a ditch breaker, Trench Breakers are temporary or permanent barriers installed at regular intervals in pipe trenches. Trench Breakers are used in two types of installations:

- Fill is placed for prevention of erosion caused by the lateral movement of runoff in the open trench
- Filled to allow the contractor to back fill up to the breaker

The Aegion Coating Services Trench Breaker system can be used as a traditional foam breaker or paired up with a specially formulated foam to prevent cathodic protection shielding. Since cathodic protection systems require moisture to conduct a current, barriers can sometimes cause cathodic protection shielding. The system is comprised of two parts that are mixed and sprayed by using specialized application equipment that dispenses the material at the appropriate ratio and volume. This system can also apply pillows to provide support to the pipeline while in the construction phase.

Aegion Coating Services offers subcontractor services for the dual layer trench breaker system. Not only is the system beneficial to the owner companies but also to the contractors through labor, material savings and minimal downtime.

Types

- Dual layer foam
- Single layer foam
- Pipe pillows

System Features and Benefits

The Added Benefit of the Aegion Coating Services Trench Breaker

Corrosion of a metal surface takes place when free oxygen and water molecules attach themselves to free sites on iron atoms creating ferrous hydroxide.

Prior to construction, pipe and fittings are coated with an organic polymer which has been designed to prevent corrosion by blocking the steel surface from environmental conditions which promote corrosion. Once in service, damage to the original coating can allow corrosion to form. Cathodic protection helps prevent corrosion by supplying an electrical current, converting all anodic sites on the metal surface to cathodic sites, discouraging the corrosion process.

Through independent testing, Aegion Coating Services's Trench Breaker allows the current generated by the engineered cathodic protection systems to reach the buried pipe lines. Testing shows that over time the breaker material is permeated by moisture, allowing the current to reach any holidays in the steel where corrosion could begin.



Services Available

- Technical Support
- Setup
- Application Support
- Installation

An ISO 9001:2008 Certified Company

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