Fill-Coat® #2
Cold-Installed Casing Filler for installation in pipeline casings

Fill-Coat #2 Casing Filler is a petrolatum wax-based corrosion preventative compound, used to fill the pipeline casing annulus, specifically designed for cold installation for small quantity requirements. It prevents corrosion by displacing water that is present and preventing water from re-entering the casing. 

Water or water vapor is present in most pipeline casings, making possible galvanic corrosion of the carrier pipe. Also, a "water short" can occur through the water in the casing, allowing cathodic current to flow through the water and onto the pipe in the casing. Under these circumstances, cathodic current is increased and the casing is sacrificed as well. Casing Filler prevents this from occurring. Further, in some instances the pipe may be shorted to the casing through a direct metal-to-metal contact and filling the casing might correct this condition on some occasions.

In any case, it is difficult, if not impossible, to cathodically protect pipe in a casing, so that filling of the casing will protect the pipe from corrosion regardless of the circumstances.

When the casing is filled with Fill-Coat #2, it displaces accumulated water from the casing and prevents new water from re-entering through leaks in the seals or through condensation. Thus, corrosion that might have been occurring is prevented, cathodic current to protect the pipeline in the casing may be reduced, and the sacrifice of the casing by cathodic current flowing through casing is halted. Since Fill-Coat #2 is electrically nonconductive, a metallic short may thus be corrected.

After being pumped into the casing, the filler remains as a firm gel, pliable enough to allow the carrier pipe to be removed if necessary. It is essentially inert and non-volatile and will remain unchanged indefinitely.

Fill-Coat #2 Casing Filler is delivered to the job site in 55-gallon drums. It is pumped by mastic pump out of the drums directly through the casing vent, until the casing void is filled and material discharges out the other vent.

Adequate openings through the casing must be present where the vent is attached, so that the flow of Casing Filler is not unduly restricted. As the casing is filled, air and water are purged out the opposite vent. It is preferable, although not necessary, that casing vents be installed with the low end vent attached to the bottom of the

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casing and high end vent attached to the top of the casing. This makes possible the removal of water prior to installation of Casing Filler either by blowing it out with an air compressor or pumping it out with a suction pump.

Installation of Fill-Coat #2 Casing Filler is an acceptable “other measure” under the code requirements of the Department of Transportation. The DOT code under Regulations for the Transportation of Natural and Other Gas by Pipeline, Title 49 of the code of Federal Regulations, Part 192, Subpart 1, Section 192.467, Paragraph C states, "Except for unprotected copper inserted in ferrous pipe, each pipeline must be electrically isolated from metallic casings that are a part of the underground system. However, if isolation is not achieved because it is impractical, other measures must be taken to minimize corrosion of the pipeline inside the casing."

Fill-Coat #2 Casing Filler, installed as an "other measure" to minimize corrosion, is often much less expensive in the long term than increasing cathodic protection current or attempting to clear the short by other construction methods.

In summary, Trenton Fill-Coat #2 cold-installed Casing Filler provides excellent protection against corrosion and is economically advantageous for small quantity requirements.

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**Description:**
Fill-Coat #2 is a petrolatum-based corrosion preventative compound that is specifically designed to be installed cold out of a 55-gallon drum for small quantity requirements. It remains in a firm gel consistency at ground temperatures commonly found in normal pipeline operations.

**End Use:**
Fill-Coat #2 is used to fill the annular space between the pipeline casing and the carrier pipe. It displaces water that may be present and it prevents water from re-entering, thereby mitigating any further corrosion.

**Application Procedures:**
Fill-Coat #2 is shipped directly to the job site in 55-gallon drums and pumped (at temperatures above 55°F) by an air-driven mastic pump directly into the casing through one casing vent until it flows from the opposite vent. Fill-Coat #2 can be heated and pumped as a liquid if desired.

A 10:1 ratio mastic pump with follower plate is available from Trenton on a rental basis.

**Specifications:**
- Color: dark brown
- Specific Gravity @ 60°F: 0.80-0.90
- Pour Point: 80-100°F
- Flash Point: 300°F

**Packaging:**
55-gallon drums

**Advantages:**
- Prevents galvanic and atmospheric corrosion within casings
- Displaces and prevents re-entry of water in casing
- Satisfies DOT requirements for shorted casings
- Carrier pipe can be removed
- Inert, nonhazardous, and nonvolatile
- Pumpable at temperatures above 55°F without heating
- Economical for small quantity requirements

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**Fill-Coat Estimated Quantity Requirement:**

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<th>Pipe x Casing Size (in inches)</th>
<th>Gallon/Foot</th>
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<td>6 x 10</td>
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