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Evaluation of Armor Poly VCI AN-OX Film

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Background: Customer requested that the submitted Armor Poly VCI AN-OX film be tested to determine if it provided sufficient corrosion protection.

Sample Received: Armor Poly VCI AN-OX Film

Method:

- 1) VIA, CC-027
- 2) Razor Blade, CC-004
- 3) FTIR, CC-006

Materials:

- 1) VIA test kit
- 2) Razor Blade test kit
- 3) Paragon 1000 FTIR

Procedure: The above tests were performed according to standard procedures for each.

Results:

Razor Blade Test Performed on Carbon Steel Panels

Sample	Panel 1	Panel 2	Panel 3
Armor Poly VCI AN-OX	Pass	Pass	Pass
Control	Fail	-	-

VIA Test

Sample	Plug #1	Plug #2	Plug #3
Armor Poly VCI AN-OX	Grade 3	Grade 2	Grade 1
Control	Grade 0	-	-

Note: VIA Grading system is attached below

Interpretations: Based on the test results, the submitted Armor Poly VCI AN-OX provides contact-phase corrosion protection for carbon steel but does not provide sufficient vapor-phase corrosion protection. Also this film has a poor quality (“fish eyes”), which can cause corrosion problems in the field.

VIA Test Grades (Grade 2 or 3 are passing)

- Grade 0: Blind test
No corrosion inhibiting effect
- Grade 1: Blind test
Minute corrosion inhibiting effect
- Grade 2: Blind test
Medium corrosion inhibiting effect
- Grade 3: Blind test
Good corrosion inhibiting effect



