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4119 White Bear Parkway, St. Paul, MN 55110 USA Phone: (651) 429-1100, Fax: (651) 429-1122 Toll Free: (800) 4-CORTEC, E-mail: info@cortecvci.com cortecvci.com • corteclaboratories.com Evaluation of Armor Poly VCI AN-OX Film From: Cortec Corporation Laboratories 4119 White Bear Parkway St.Paul, MN 55110 **Boris Miksic** cc: Anna Vignetti Mike Morin **Bob Boyle** Kristy Gillette **Project** #:10-206-1125(bis) diz Austin Test conducted by:

Liz Austin Sr. Lab Technician

Approved by:

M. Rharshow

Margarita Kharshan Laboratory Director



**Date:** October 19, 2010

**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

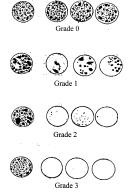
Sample	Plug #1	Plug #2	Plug #3
Armor Poly VCI AN-OX	Grade 3	Grade 2	Grade 1
Control	Grade 0	-	-

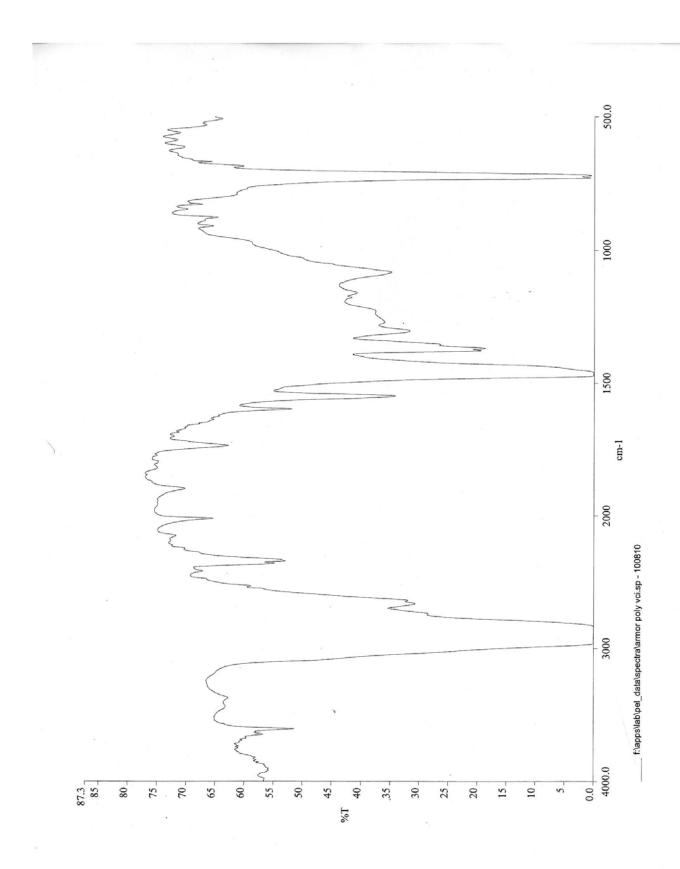
Note: VIA Grading system is attached below

**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
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