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Evaluation of VCI Film Sold by Fuchs

Background: Gerhard Stottmeister/Corpac Deutschland GmbH submitted VCI film sold by Fuchs, and a corrosion inhibitor evaluation is sought.

Purpose: Evaluate the corrosion inhibitor performance of VCI film sold by Fuchs

Method: VIA Test
 Razor Blade Test
 SO₂ Test
 FT-IR Spectroscopy

Materials: VIA Test Kit
 Razor Blade Test Kit
 SO₂ Test Kit
 EM Quant Nitrite Test Kit (Lot/Exp Date OC191325/Feb 04)

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

Results: VIA Test

Material	Plug #1	Plug #2	Plug #3
VCI film sold by Fuchs	Grade 1	Grade 1	Grade 1
Cortec VpCI-126 Blue Film*	Grade 3	Grade 3	Grade 3
Control	Fail	Fail	Fail

Razor Blade Test

Material	Panel #1	Panel #2	Panel #3
VCI film sold by Fuchs	Fail	Fail	Fail
Cortec VpCI-126 Blue Film*	Pass	Pass	Pass
Control	Fail	Fail	Fail

SO₂ Test

Material	Plug #1	Plug #2	Plug #3
VCI film sold by Fuchs	Grade 1	Grade 1	Grade 1
Cortec VpCI-126 Blue Film*	Grade 4	Grade 4	Grade 4
Control	Fail	Fail	Fail

*Typical results for Cortec VpCI-126 Blue Film



VIA Test Grades (Grade 2 or 3 are passing)

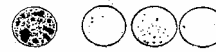
- Grade 0: Blind test
No corrosion inhibiting effect
- Grade 1: Blind test
Minute corrosion inhibiting effect
- Grade 2: Blind test
Medium corrosion inhibiting effect
- Grade 3: Blind test
Good corrosion inhibiting effect



Grade 0



Grade 1



Grade 2



Grade 3

SO₂ Grades (Grade 3 and 4 are passing):

Grade 0- Extensive corrosion covering 25% or more of panel surface

Grade 1- Moderate corrosion covering 10-25% of panel surface

Grade 2- Slight corrosion covering 5-10% of panel surface

Grade 3- Very slight corrosion covering 0-5% of panel surface

Grade 4- No visible corrosion on panel surface

Nitrite Test: VCI film sold by Fuchs contains a large amount of Nitrites

Conclusion: VCI film sold by Fuchs is a nitrite-based and does not provide contact, vapor or barrier corrosion protection.

Project #: 02-152-1125

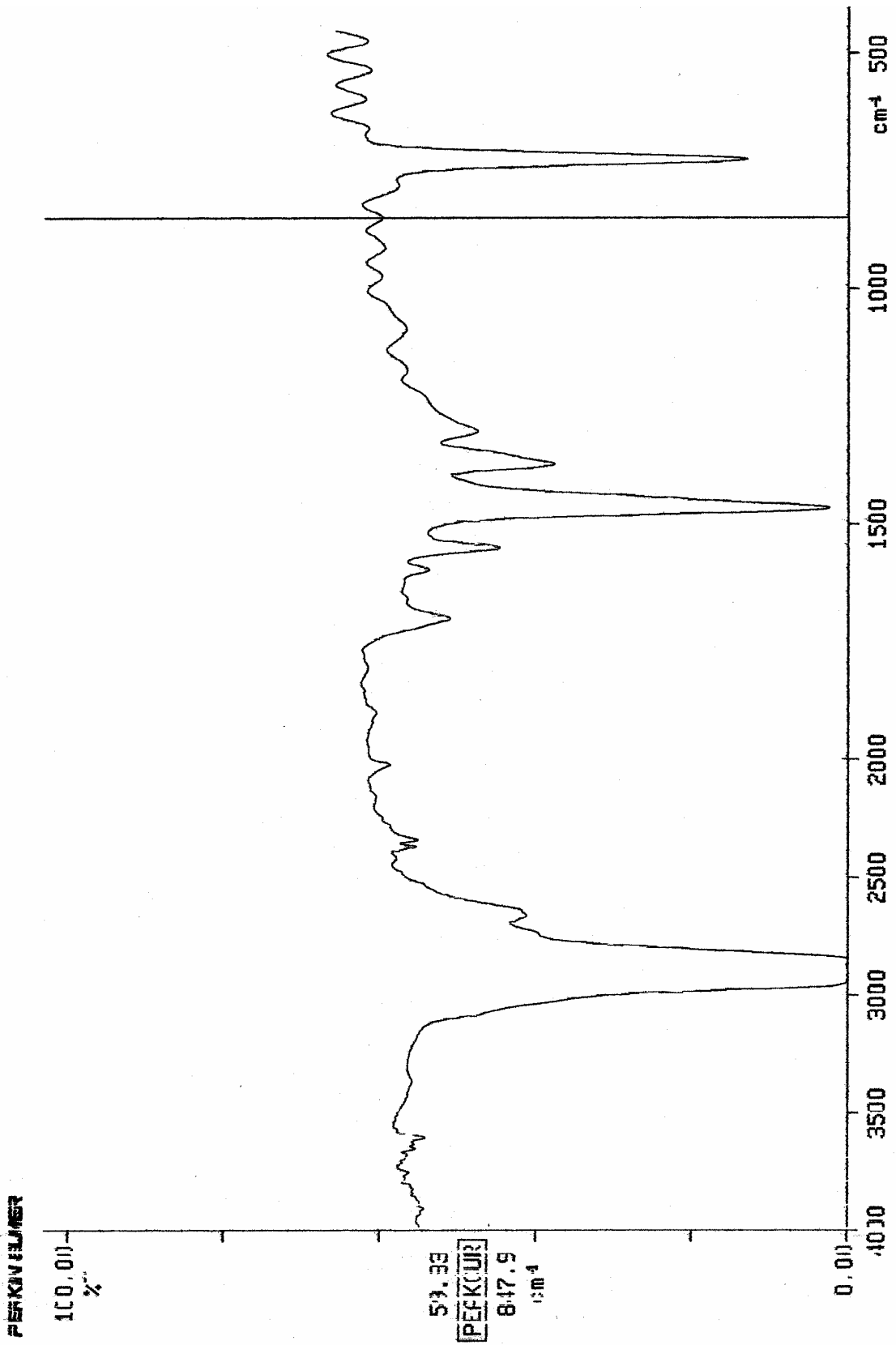
Estimated Cost of Project: 3 hours

To: Gerhard Stottmeister/Corpac Deutschland GmbH

From: Bob Berg

Date: 7/25/02

cc: Boris Miksic
Anna Vignetti
Art Ahlbrecht
Margarita Kharshan
Cliff Cracauer
Vanessa Schultz
Dario Dell'Orto
Bob Boyle



02/07/22 11:56 QA
 SCAN: 8 scans, 16.0cm⁻¹
 PROJECT # 02-152-1125