

- 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

Humidity Testing Rust Veto 4214 vs. VpCI-325

To: Jessica Glanz

From: Cortec Laboratories, Inc.
4119 White Bear Parkway
St. Paul, MN 55110

cc: Boris Miksic
Cliff Cracauer
Ming Shen
Robert Kean
Jay Zhang
Mike Gabor
Ivana Radic Borsic

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Results reported by:



Brian Benduha
Lab Technician

Approved by:



John Wulterkens
Technical Service Engineer



Background: Customer uses Rust Veto 4214 for their parts but is looking to go with something more environmentally friendly that also provides better corrosion protection. This report will evaluate the corrosion protection of VpCI-325 compared to Rust Veto 4214.

Samples Received: The following samples were received on 11-2-18 in good condition:

1. Rust Veto 4214
2. Six saw blades

Method: Humidity Testing, ASTM D1735

Materials: Q-fog humidity chamber
VpCI-325 (batch #143018)
Methanol, ACS grade (lot #071417B)
Kimwipes

Procedure: The submitted saw blades were first cleaned with methanol, dried with kimwipes, and then coated with the products to be tested. Parts were left to dry overnight and then placed in the Q-fog humidity chamber and tested until failure. Failure was determined by the first appearance of corrosion.

Results: The following results were found:

Saw Blade treated with:	Blade #	Time to Failure*
Not treated (control)	-	<1 hour
Rust Veto 4214	1	500 hours
	2	365 hours
VpCI-325	1	Did not fail
	2	Did not fail

Testing started on 11-13-18 @ 8am and ended on 12-11-18 @ 10am

*tested for a total of 674 hours

Interpretations: The results of the humidity testing shows that VpCI-325 protects the submitted saw blades better than Rust Veto 4214.

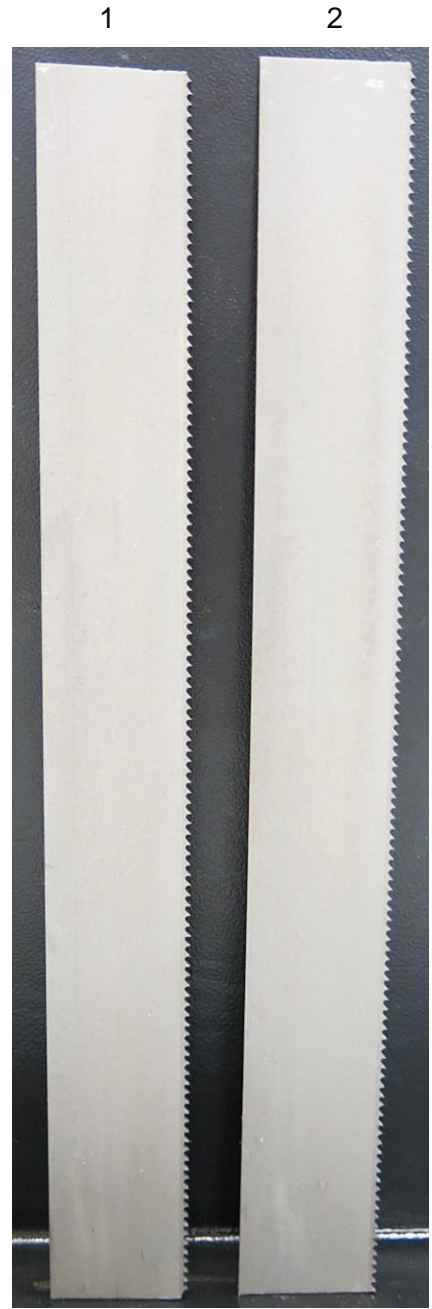
Photos after 674 hours of Humidity Testing:



Control- not treated



Treated with Rust Veto 4214



Treated with VpCI-325