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Evaluation of Dascoguard Konz 60

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Project #: 13-204-1825

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Date: December 2, 2013



Purpose: To compare Dascoguard Konz 60 at 20% in industrial oil, with Cortec's M-529 at concentrations ranging from 5- 20% and VpCI-322 at 20% concentration.

Sample Received: Dascoguard Konz. 60

Method: ASTM D-1748 (Humidity Testing)

Materials:

- 1) Steel panels, grade AISI E52100, polished 280 grit. (Metaspec part #560-52100)
- 2) Hyprene H-100 oil (Rm-507)
- 3) VpCI-322 (batch #02792)
- 4) M-529 (batch #07521)
- 5) Methanol, lab grade

Procedure: The following procedure was followed:

- 1) Steel panels were cleaned with methanol, dried, then coated with the products being tested and hung to dry overnight. (Note- dilutions were made with Hyprene H-100 oil, by weight)
- 2) Panels were placed in the humidity chamber and inspected for corrosion on a daily basis.
- 3) Record the number of hours until the panels fail. Note- failure is determined by observing one spec of corrosion that is 1-3mm in diameter, or three specs of corrosion at least 1mm in diameter.

Results:

Sample	Time to Failure*
Hyprene H-100 oil (control)	1 hour
20% Dascoguard Konz 60	210 hours
20% VpCI-322	did not fail
20% M-529	did not fail
15% M-529	did not fail
10% M-529	865 hours, (very little)
5% M-529	205 hours

*Tested for 865 hours

Interpretations: The humidity testing results show that 20% Dascoguard Konz 60 gives roughly equal the amount of corrosion protection on steel panels as M-529 at 5% concentration. At 10% M-529, the corrosion protection increases significantly, and far exceeds the protection capabilities of 20% Dascoguard Konz 60.

The testing for 15-20% M-529, and 20% VpCI-322 is still ongoing since there has been no signs of corrosion after 865 hours of humidity testing.

Photos:

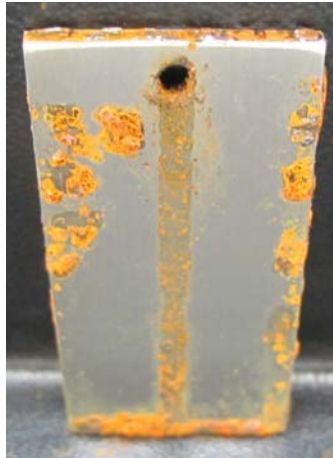
Humidity testing
after 865 hours



Control



20% Dascoguard Konz 60



5% M-529



10% M-529