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## ***Evaluation of Eco Pro Corrosion Inhibitor***

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**Project #:** 16-243-1525

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**Background:** Walter Pregelj Barth from LUBOKS, Cortec distributor in Argentina, sent a sample of EcoPro, a galvanic corrosion inhibitor manufactured in Korea. He would like the corrosion protection properties of this product evaluated. Since there is no data regarding this product's performance by humidity chamber, LUBOKS has submitted pre-coated panels for testing.

**Sample Received:** 3 steel panels, coated with Eco Pro by LUBOKS, received on 10-24-16

**Method:** Humidity Testing, ASTM D1735

**Materials:** Q-fog humidity chamber  
Dry film thickness gauge

**Procedure:** The submitted panels were placed in the Q-fog chamber and tested until failure. After 24 hours, one of the panels was taken out and a photo was taken. The panel was then put back in the chamber and the panels were tested for 168 hours total.

**Results:** The Eco Pro panels coated by LUBOKS have a dry film thickness ranging from 0.1 to 0.5mils. Average film thickness was ~0.3mils.

Panels coated with Eco Pro failed in less than 24 hours in the Q-fog chamber.

**Photos:**



Figure 1: Steel panel coated with Eco Pro after 24 hours of humidity testing.

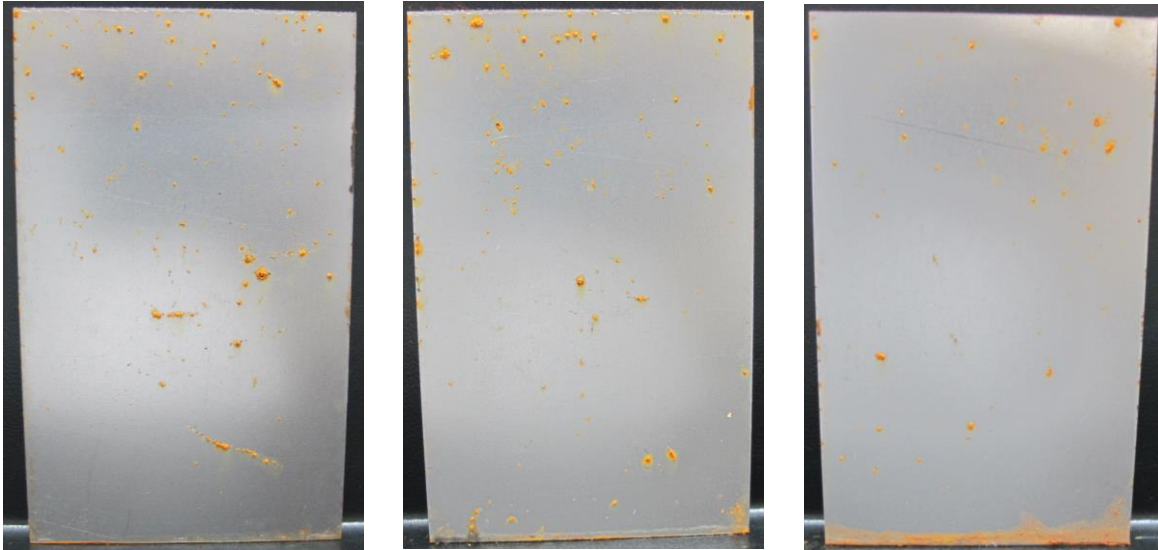


Figure 2: Steel panels coated with Eco Pro, after 168 hours of testing.

**Interpretations:** The steel panels coated with Eco Pro failed ASTM D-1735 humidity testing in less than 24 hours. After 168 hours, significant corrosion was seen on all panels. Walter will send a sample of Eco Pro bulk liquid for further testing versus various Cortec products.