

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 Internet http://www.cortecvci.com

## Evaluation of VpCI-377 for Customer

**Background:** A customer is currently utilizing a Fuchs oil based rust preventative (RP)

for the corrosion protection of their components and then wrapping the parts in VpCI-126 film. They are interested in finding a replacement for

the oil that will be compatible with the VpCI-126 film. Cortec's

distributor company suggested for them to utilize the VpCI-377 for this

application.

**Purpose:** Compare the VpCI-377 to the Fuchs oil on the components provided by

Distributor

**Materials:** VpCI-126 Blue Film, manufactured by Cortec in the United States of

America

2 packages of components, treated with Fuchs RP

Ecoair VpCI-377

Ecoair VpCI-414 Cleaner

**Method:** Modified ASTM-D-1748

**Procedure:** The following procedure was followed:

1) 2 trays of components arrived heavily coated with oil and wrapped in VpCI-126 film.

- 2) The film was removed from both trays and the components were inspected.
- 3) One set of components and the tray they arrived on were cleaned with the Ecoair VpCI-414 to remove the Fuchs oil.
- 4) Next these components were coated with VpCI-377 from an Ecoair container and allowed to fully dry.
- 5) Both of the trays were labeled and then placed in VpCI-126 Blue film and heat sealed.
- 6) After 24 hours the trays were placed in the modified ASTM-D-1748 Humidity cabinet and periodically inspected.
- 7) The components were removed from the modified ASTM-D-1748 chamber after 1632 hours, inspected, photographed and a report was written.
  - a. The chamber was kept between 115°F and 120°F and 100% Relative Humidity (RH), but was reduced to room temperature and 50% RH for a total of 248 hours during the test at varied intervals.





**Results:** Less than 1% of the total surface area of the components treated with

VpCI-377 and wrapped in VpCI-126 Blue film was corroded.

Greater than 10% of the total surface area of the components treated with

the Fuchs oil and wrapped in VpCI-126 Blue film was corroded.

**Conclusion:** VpCI-377 greatly outperformed the Fuchs oil when utilized with the

VpCI-126 Blue film for the corrosion protection of the components tested. The synergy between Cortec products was clearly evident by the tenfold decrease in corrosion between the sample with VpCI-377 and the sample

treated with the Fuchs oil.

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