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Report No. 03-1497

For

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***Laboratory Testing:
ASTM D 5894-96 on
AMP Multifunctional Coating***

Prepared by

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Tuesday, September 02, 2003

I.T.I Contract No. 7957

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Introduction

A sample of AMP Multifunctional Coating was delivered to ITI Anti-Corrosion, Inc. for application and testing. Testing was performed in general accordance with *ASTM D 5894-96; Cyclic Salt/Fog Exposure of Painted Metal, (Alternating Exposures in a Fog/Dry Cabinet and UV/Condensation Cabinet)* for a duration of 1008 hours.

Sample Preparation

Three (3) panels measuring 3” x 6” x 0.125” were solvent washed with acetone then grit blasted to a white metal finish (SSPC SP-5) which achieved an average anchor profile of 3.0mils. After blasting, the AMP material was mixed in accordance with the manufacturer’s recommendations and applied to one side of the blasted panels using a short nap roller. The AMP material was allowed to cure for three (3) days and then the back and edges of the panels were sealed using a 100% solids epoxy. The coated panels were allowed to cure at 77°F for a total of seven (7) days and then an “X” was scribed through the coating to the substrate on the lower 3 inches of all three (3) panels.

The panels were placed in the QUV cabinet for the first cycle then seven (7) days later they were placed in the prohesion cabinet for seven (7) days. The panels were rotated between the QUV and prohesion cabinets every seven (7) days for the duration of the exposure period with the final cycle being completed in the prohesion cabinet.

Test Results

Evaluation Method	Panel 1 – 9mils	Panel 2 – 10mils	Panel 3 – 11mils
ASTM D 660-93; Checking	No Visible Signs of Checking	No Visible Signs of Checking	No Visible Signs of Checking
ASTM D 714-87; Blistering	10	10	10
*ASTM D 1654-92; Corrosion, Table 1	8	8	7
ASTM D 3359-02; Adhesion, Method A	5A	5A	5A
ASTM D 4214-98; Chalking, Method A	No. 8	No. 8	No. 8

**Note: The coating along the scribe areas was removed using a utility knife and a light levering action thus allowing the corrosion creepage emanating outward from the scribes to be measured and rated using Table 1 of ASTM D 1654-92.*