

DATE: December 11, 2003

SUBJECT: SR 1000 For Use in Lexington

The purpose of this testing is to determine if the SR 1000 acrylic coating will meet our indoor corrosion criteria for coating TB-38 Channels for use in Lexington. The coating was also tested per our outdoor requirements to determine its acceptability outdoors as well. This system was tested with two substrates; galvanized and Morton First coated galvanized steel.

Conclusions:

- Both substrates meet the indoor corrosion criteria of 168 hours of salt spray per ASTM B117 and the 312 hours of water immersion per ASTM D870 and are acceptable for use.
- The galvanized substrate met the outdoor corrosion requirements of 672 hours of salt spray and 1008 hours of water immersion.

Supporting Information & Data:

G90 and Morton First coated galvanized steel were provided to determine acceptability for use in indoor and outdoor applications. Six panels of each type were exposed to salt spray per ASTM B117. Three panels of each type were removed after 168 hours and the remaining panels were removed after 672 hours. Six panels of each type were exposed to water immersion per ASTM D870. Three panels of each type were removed after 312 hours and the remaining panels were removed after 1008 hours. At the end of these tests the panels were removed and examined for blistering, adhesion loss and failure along the scribe.

Materials and Testing Technology