

08/11/10



## Test Certificate

Liquid Rubber Industries  
2410 Speers Road  
Oakville, ON  
L6L 5M2

REF No  
Page  
Ord No  
Date Tested  
Date Reported

G104197 : Issue 1  
1 of 2  
Credit Card  
07/16/10  
08/11/10

Attn: Graham Hagens

Item - Ref: Coated Steel Panels Identified as 5/31-I and 5/31-II  
(Continuation of Ref #103470, Previously tested for 600 hrs)

Specification - ASTM B117-09, 1200 hours Total

### Salt Spray Testing - ASTM B 117-09

	Result	Comments
001:Test Panel	N/A	See certificate comments

### Certificate Comments

The specimens were tested in accordance with ASTM B117-2009 for a total of 1200 hours.

Evaluations of the tested specimens were conducted as follows:

- 1) Surface Rusting - ASTM D610-2008
- 2) Degree of Blistering - ASTM D714-2002(2009)
- 3) Creepback from the edges & Scribe - ASTM D1654-08  
(Visual non-destructive)

#### Test/Cabinet Conditions:

Cabinet Temperature: 35 +/- 2 deg. C  
Test Solution: 5 parts of NaCl with 95 parts of DI water  
Test Duration: 1200 hours continuous  
Interruptions During Testing: <15 minutes/day (Monday to Friday)  
pH of Collected solution: 6.5 - 7.2  
Volume of Collected Solution: 1 - 2 ml/h per 80 sq.cm (16 hrs minimum)  
Specific Gravity of the Collected Solution: 1.0255 - 1.0400 @25 C  
Position of specimens during testing: 15-30 degrees from vertical  
Method of Supporting specimens: On the plastic rack  
Method of Cleaning of the tested specimens: Rinsed with warm water  
not more than 38 C to remove salt deposits from test surface  
and then immediately dried with clean compressed air

Type of Salt: High Grade Salt (free of Nickel & Copper and containing  
not more than 0.1% of sodium iodide and not more than  
0.3% of total impurities).

Type of Water: Water conforming to Spec. ASTM D1193-06, Type IV



**Item 001: 1200 hour Salt Spray Test per ASTM B117-09.**



**Figure 1:** Photograph illustrating specimens after 1200 hours of salt spray exposure.

**Sample 5/31-I:** Showed no evidence of blistering, rusting or appearance changes on the significant surface away from the scribe. From the scribe and edges, no creepback/loss of adhesion was observed.

**Sample 5/31-II:** Showed trace amounts of red rust (0.03%) and a noticeable discoloration with no blistering on the significant surface away from the scribe. From the scribe and edges, no creepback/loss of adhesion was observed.

**Notes:**

1. Red rust originating from the edges and scribe was excluded from the field corrosion evaluation.
2. The specimens were previously tested for 600 hours with no scribe. An additional 600 hours of salt spray exposure was conducted with a straight scribe.

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Certificate Comments

\*\*\*TESTED SPECIMENS ARE BEING RETURNED FOR CUSTOMER EVALUATION\*\*\*

Tested by Marina Phady



Signed for and on behalf of  
Exova

Graham Rutherford  
Corrosion Dept. Manager