



# Neutral Salt spray testing

for Corrosion Control Ltd, 48 Riverside Drive  
Whangarei 0140

## BACKGROUND :

Requestor	Thomas Mueller Corrosion Control Ltd. 48 Riverside Drive Whangarei 0140 New Zealand.	Phone: +64 (0)9 438 88 00
Test Venue	Dulux Powder & Industrial Coating NZ Ltd Technical & Innovation Laboratory 31B Hillside Road Glenfield Auckland 0627 New Zealand <a href="http://www.duluxpowdercoatings.co.nz">www.duluxpowdercoatings.co.nz</a>	Ph +64 9 441 8244 Fax: +64 9 441 8242
Test Period	2.8.16 to 13.9.17 ( 1000 hrs)	
Date of report	14.9.17	
Report by	Prasanna Shenoy Technical Services Chemist Dulux Powder and Industrial Coatings Ltd	

## TEST OBJECTIVES:

Three wire samples have been supplied by Corrosion Control Ltd for Neutral salt spray testing. The samples are identified by cable ties as below:

- Red cable tie is the reference sample.
- Green cable tie is coated with CorrosionX Heavy Duty.
- Black cable tie is unspecified imported wire sample.

## TEST METHOD :

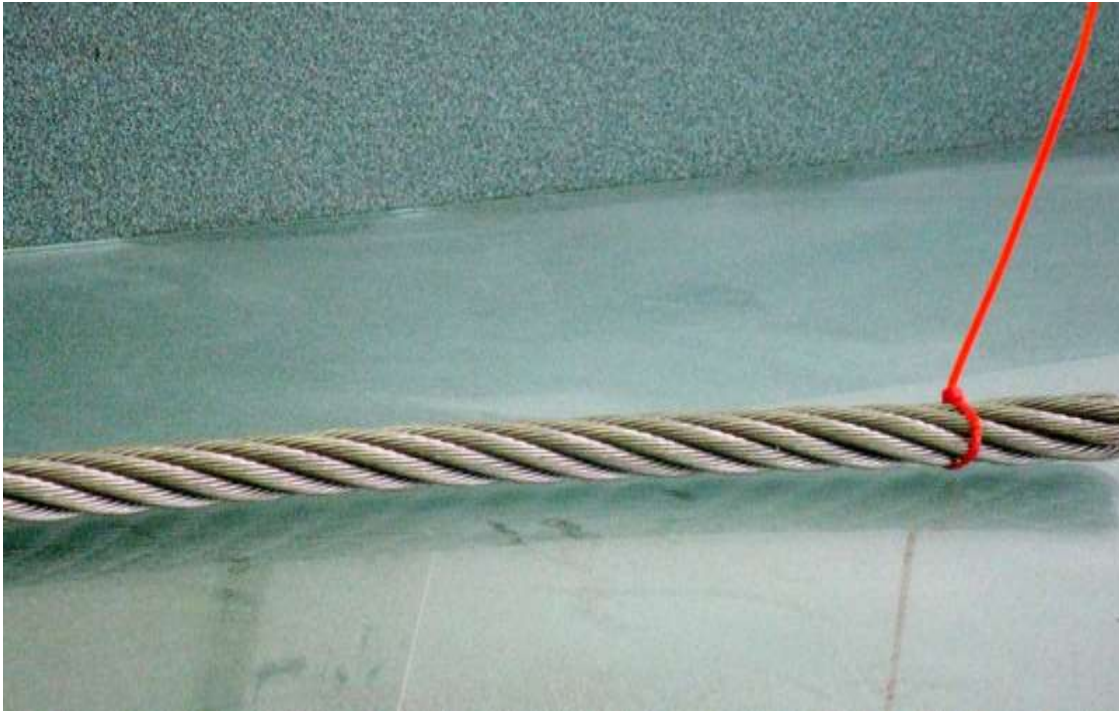
1. The initial photos of the wire samples are taken before commencing the Neutral salt spray test.
2. The samples are placed in Neutral salt spray cabinet making sure wire samples are not touching each other.
3. The samples are inspected periodically and photos taken to capture the onset of corrosion.
4. Report.

### Wire photos before commencing the Neutral salt spray test:

Red cable tie – reference sample.



Red cable tie (reference): Close up picture.



Black cable tie – Imported wire.



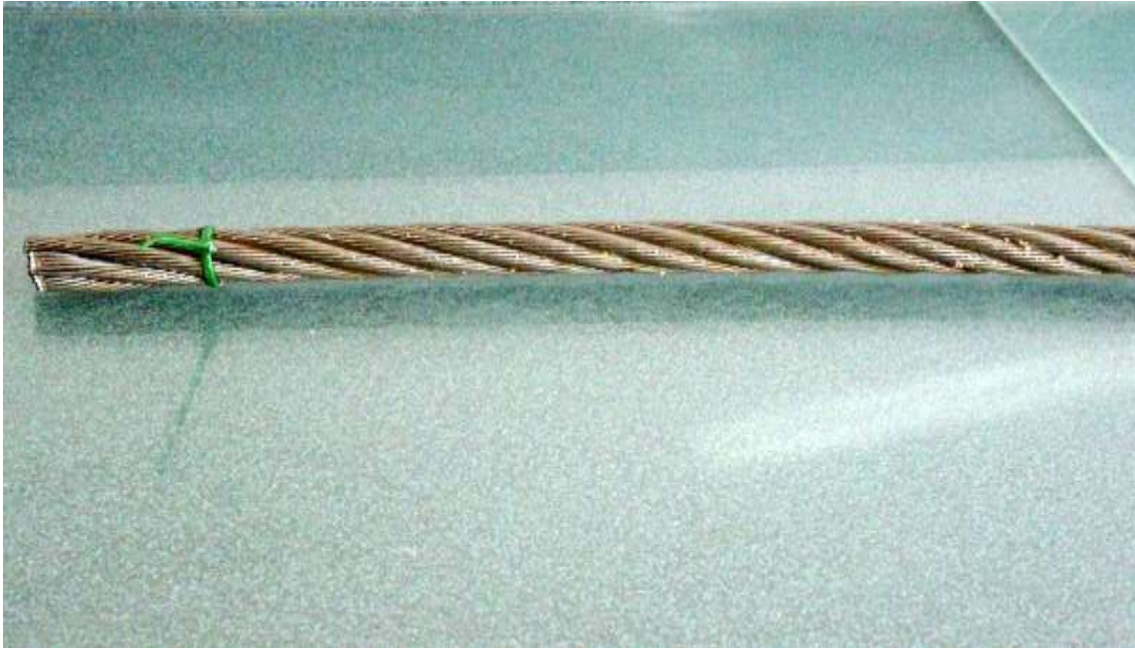
Black cable tie – Imported wire (Close up photo)



Green cable tie – CorrosionX Heavy duty



Green cable tie – CorrosionX Heavy duty( Closeup)



**Close up photos after 168 hrs Neutral Salt spray:**

Red cable tie – reference sample after 168 Hrs NSS.



Black cable tie – Imported wire sample after 168 Hrs NSS.



Green cable tie – CorrosionX Heavy duty sample after 168 Hrs NSS.



**Findings after 168 Hrs NSS test:**

Corrosion X Heavy duty sample show dis-colouration of grease but no red rust like other two samples on the exposed areas of the wire.

Black cable tie – Imported wire sample after 500 Hrs NSS



Red cable tie – reference sample after 500 Hrs NSS.





Green cable tie – CorrosionX Heavy duty sample after 500 Hrs NSS.



Findings after 500 Hrs NSS test:

Corrosion X Heavy duty sample show dis-colouration of grease but no red rust like other two samples on the exposed areas of the wire.

Black cable tie – Imported wire sample after 1000 Hrs NSS



Red cable tie – reference sample after 1000 Hrs NSS.



Green cable tie – CorrosionX Heavy duty sample after 1000 Hrs NSS.



## **Conclusion:**

CorrosionX coated wire shows dis-colouration of grease but no red rust or scales growth after 1000 hrs of Neutral salt spray test.

The Black and Red cable tie samples show Red rust and scaling right from 168 hrs of Neutral salt spray.

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