



VWE Powder Coating Specifications and Certificates

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Distribution Boards, Wall Mount and Floor Standing Panels, Stainless Steel Enclosures, Control Desks and other stock items. Certified Busbar Systems for low voltage Distribution Boards, as well as the complete wiring of panels.

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REG. Number 1983/007915/07

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Director : M. van Wyk

VWE Inhouse Powder Coating Plant





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Laboratory Report (500 Hour Report)

Customer: Van Wyk's Electrical
Date: 2019/10/01

Salt Spray Testing of Parts

Three powder coated panels were received from Van Wyk's Electrical for salt spray testing to determine the resistance to corrosion after being scribed. Two are of mild steel and one panel is stainless steel.

The panels were pre-treated as follows prior to powder coating:

- | | |
|--------------------------|-----------------------|
| 1. Degreaser | - K-Soak LT 200 |
| 2. Rinse | |
| 3. Acid Descale | - Phoskro Descale NFP |
| 4. Rinse | |
| 5. Multi-Alloy Phosphate | - Phoskro A-100 |
| 6. Rinse | |
| 7. Passivate | - Phoskro Sealer 800 |

Method

The testing was carried out in accordance to ISO 9227 – *Corrosion Tests in Artificial Atmospheres – Salt Spray Tests.*

Test Method:

Solution Concentration	5% NaCl (Reagent Grade)
Solution pH	6.8 – 7.2
Temperature	35°C
Flow Rate	0.5 lt/h
Spray Pressure	1.5 bar

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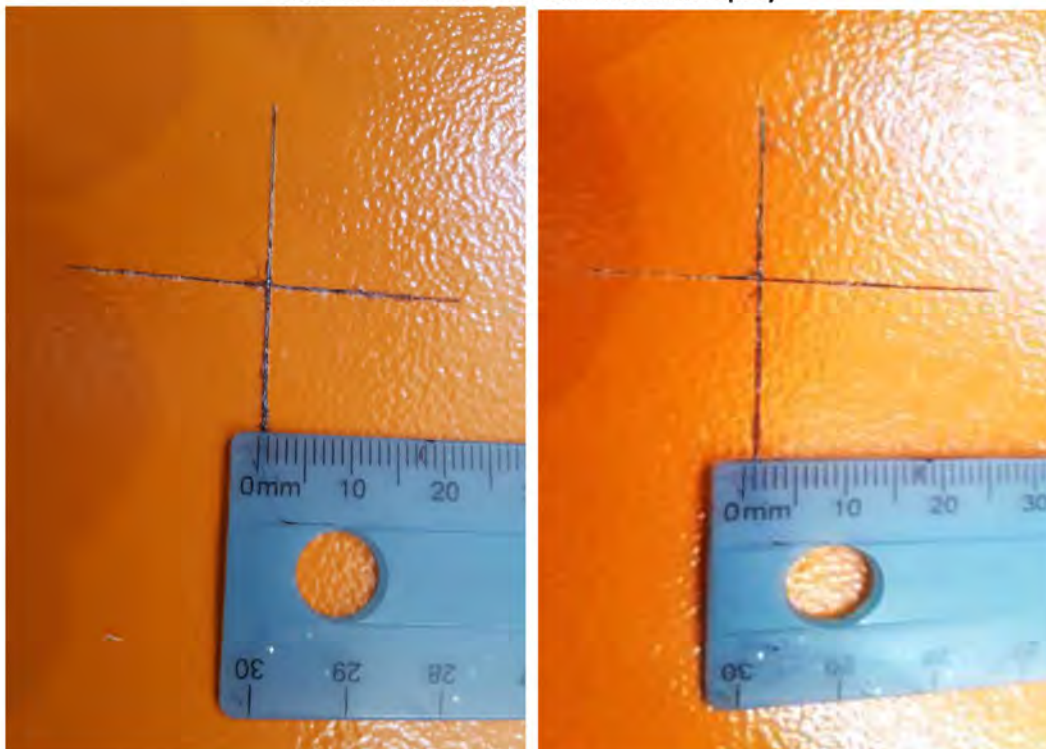


An X cut was made in the panel to evaluate the edge creep according to the standard.

Rating of Failure at Scribe (Procedure A)		
Representative Mean Creepage From Scribe		Rating Number
(Millimeters)	(Inches)	
Over 0	0	10
Over 0 to 0.5	0 to 1/64	9
Over 0.5 to 1.0	1/64 to 1/32	8
Over 1.0 to 2.0	1/32 to 1/16	7
Over 2.0 to 3.0	1/16 to 1/8	6
Over 3.0 to 5.0	1/8 to 3/16	5
Over 5.0 to 7.0	3/16 to 1/4	4
Over 7.0 to 10.0	1/4 to 3/8	3
Over 10.0 to 13.0	3/8 to 1/2	2
Over 13.0 to 16.0	1/2 to 5/8	1
Over 16.0 to more	5/8 to more	0

Results

Mild Steel Panels after 500 Hours Salt Spray





Mild Steel panels after 500 Hours Salt Spray exposure:

- There is no surface corrosion on either of the panels outside of the scribe marks.
- There is no blistering on any of the surfaces, paint adhesion is very good with no lifting or peeling of the coating.
- There is red rust corrosion within the scribe marks.
- There is slight evidence of creep visible.
- Both panels have a rating number of 9 (Total creep of 0.0 – 1.0 mm).

Corrosion resistance is excellent.

Stainless Steel Panel after 500 Hours Salt Spray



Stainless Steel panel after 500 Hours Salt Spray exposure:

- There is no surface corrosion on the panel outside of the scribe marks.
- There is no blistering on any of the surfaces, paint adhesion is very good with no lifting or peeling of the coating.
- There is no corrosion within the scribe marks.
- There is no evidence of creep visible.
- The panel has a rating number of 10 (Total creep of 0.0 mm).

Corrosion resistance is excellent.

Duncan Thompson
R&D Manager

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