



TEST REPORT

Manufacturer: Action Corrosion Pty Ltd.
3/18 Industry Drive, Tweed Heads South
NSW 2486
Ph. 1300 731 311

Location: Sigma Aerospace
Tweed Heads South Office
NSW 2486

Test Date: 9 September 2016

SAMPLE DESCRIPTION

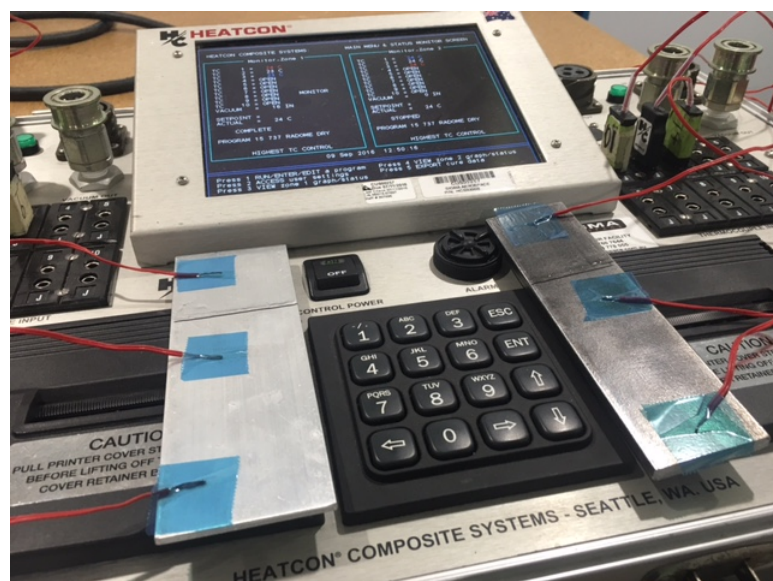
1) 3mm thick mild steel plate 65mm x 200mm. A third of the sample plate sprayed with two coats of Action Clear aerosol to achieve a (DFT) of 25 microns.

2) 3mm thick aluminium plate 50mm x 200mm. A third of the sample sprayed with two coats of Action Clear aerosol to achieve a (DFT) of 25 microns.

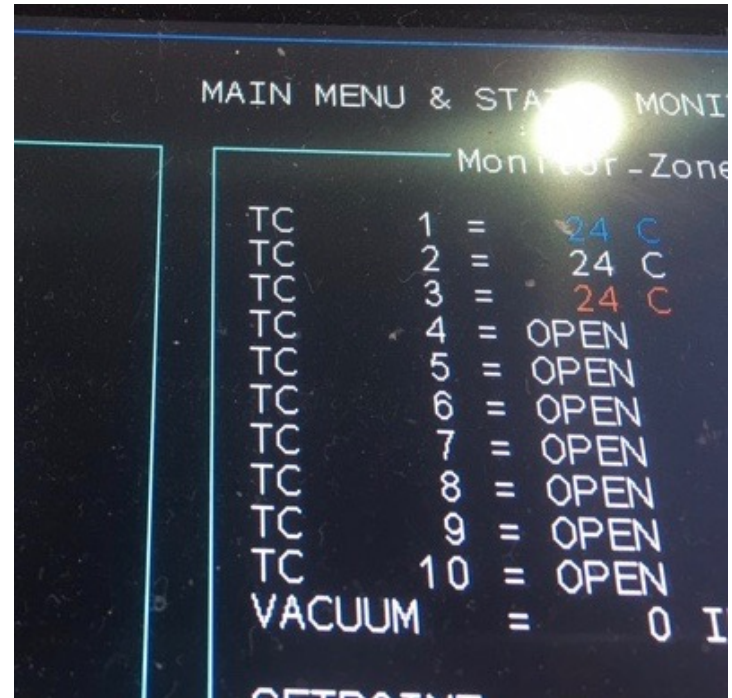
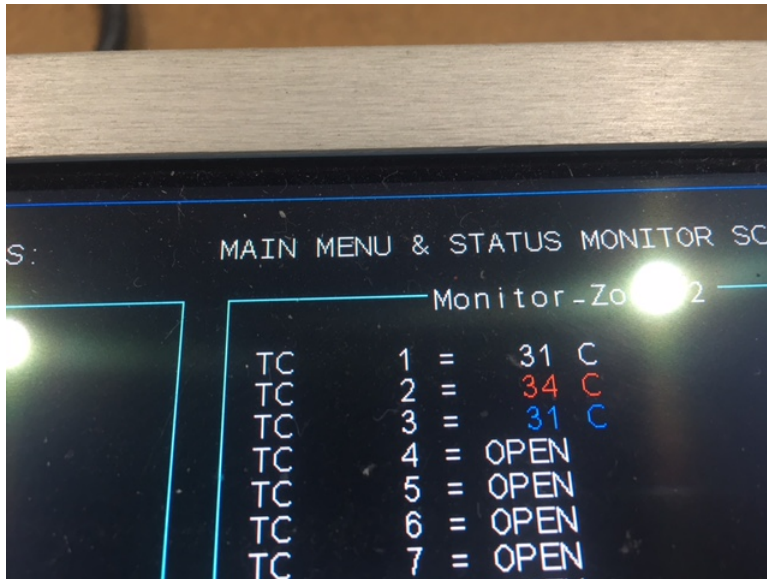
SPECIFICATION

To test the temperature exchange efficiency of a metal surface coated in Action Clear using a temperature pressure composite monitor.

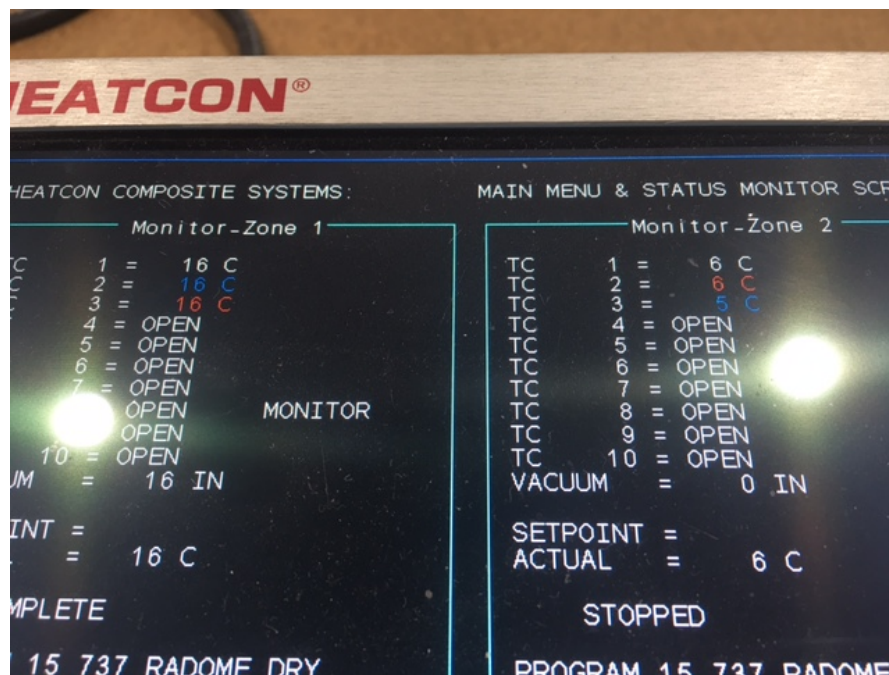
The image below indicates the aluminium plate on the left and mild steel on the right.



The image below represents the variations in temperature collected by sensors in the three locations on the mild steel panel a minute after heat was applied.



Heat exchange was next monitored on cooler temperatures. Both panels were placed in a freezer and sensors attached in the same three locations.



[illegible]

MAIN MENU & STATUS MONITOR SCREEN

Monitor-Zone 2

TC	1	=	6	C
TC	2	=	6	C
TC	3	=	5	C
TC	4	=	OPEN	
TC	5	=	OPEN	
TC	6	=	OPEN	
TC	7	=	OPEN	
TC	8	=	OPEN	
TC	9	=	OPEN	
TC	10	=	OPEN	
VACUUM		=	0 IN	
SETPOINT =				

```

MAIN MENU & STATUS MONITOR SCREEN

Monitor_Zone 2

TC      1 =      6 C
TC      2 =      6 C
TC      3 =      5 C
TC      4 = OPEN
TC      5 = OPEN
TC      6 = OPEN
TC      7 = OPEN
TC      8 = OPEN
TC      9 = OPEN
TC     10 = OPEN
VACUUM  =      0 IN

SETPOINT =
  
```

TEMPERATURE VARIABLES IN DEGREES CELSIUS

Sensor 1	Sensor 2	Sensor 3 (Action C/C)
36 (AL)	36	36
24 (AL)	24	23
16 (AL)	16	16
31 (FE)	34	31
24(FE)	24	24
6 (FE)	6	5

RESULTS

Under higher temperatures, it was determined the most explanatory data would come from readings from sensor 1 and sensor 3, as they were at opposing ends of the sample plate and did not have heat directly applied to their area as per sensor 2. When the data from sensors 1 and 3 were compared on six temperature variables, on four occasions the readings were identical. On the other two occasions there was only a one degree celsius temperature difference.

The testing could not establish any difference in heat exchange efficiency between the samples coated in Action Clear and those areas that were not coated with the product. It would appear Action Clear at 25 microns does not inhibit heat exchange in the metals tested.

Richard Ferris
Manager
Sigma Aerospace
(Accredited Tester-
Temperature/Pressure Composite Monitor.)
26 November, 2015.