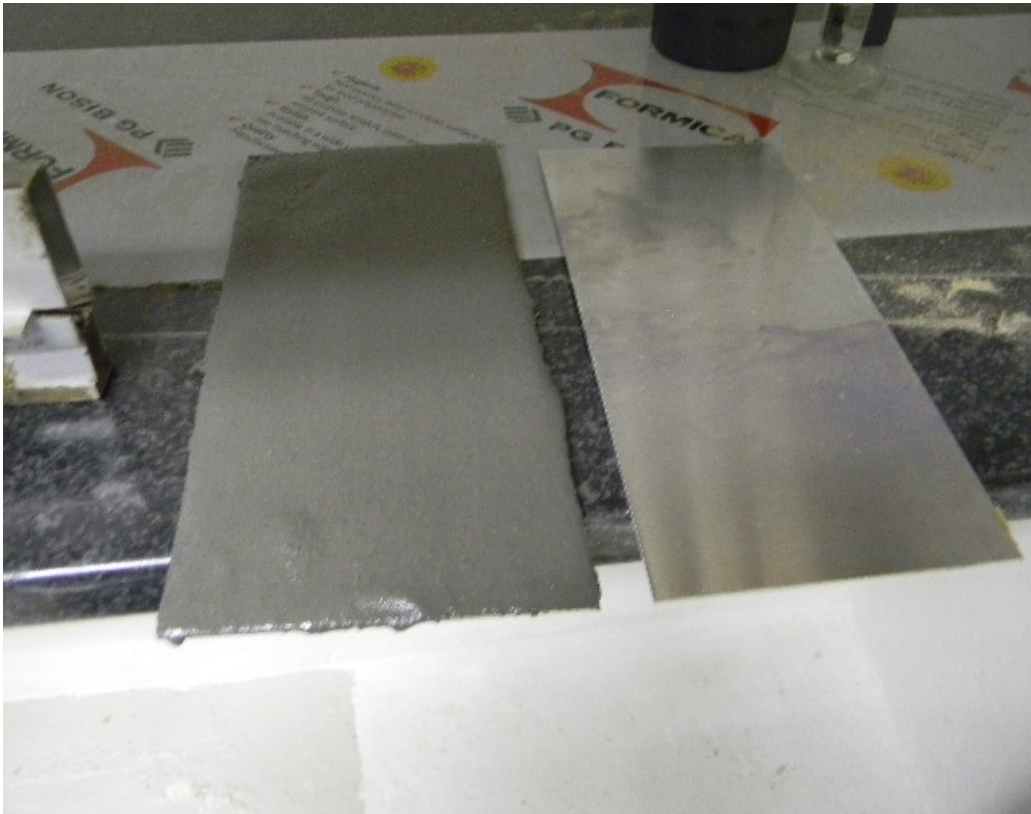


**Fire Protection test report:
25/07/2016**

Test description:

The purpose of the test is to determine if Mine Marshal 8000's 2 coat system can reduce the heat transfer of aluminium in order to protect the building elements from fire. A aluminium plate with nominal thickness of 2 mm was used as the test specimen. Mine Marshal Grit was applied first and then a coat of Mine Marshal Nano. Total thickness of coating = 2-3 mm



The product was allowed to cure for 24 hours





A butane gas flame was focused on the coating for 2 hours



These are the results over a 2 hour period on coated panel:

Time in Minutes	Temperature °C
5	31.8
10	35
15	39
20	44.8
25	53
30	53
35	56

40	68
45	72
50	77
55	78
60	80
65	80
70	80
80	86
85	86
90	86
95	86
100	94
105	112
110	132
115	134
120	130

These are the results over a 2 hour period on an uncoated panel:

Time in Minutes	Temp in °C
5	154
10	198
15	215
N/A	N/A

Conclusion:

Mine Marshal 8000 reduced the transfer of heat on a aluminium to safe measures for a period of 2 hours when the applied thickness is between 2-3 mm.