




4. CONCLUSION

The system Transpoxy Masterbond meets the requirements of MIL-PRF-4556F section 3.6.8 concerning fuel resistance.

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1 INTRODUCTION

1.1 General data

By order of Mr J. Wessels of Transocean Coatings in Rotterdam, the Centrum voor Onderzoek en Technisch advies BV (COT), in Haarlem, has performed an investigation of the immersion resistance in Jet Fuel of Transpoxy Masterbond, according to the specification MIL-PRF-4556F section 4.3.17.

The order for this investigation has been given in an e-mail dated 8 January 2008 by Mr. J. Wessels of Transocean.

1.2 Samples

Samples : 3 steel panels (75 x 150 mm) coated with Transpoxy Masterbond sent by Transocean

COT sample number : 14-01-08/0009

COT project number : 20080051

Received : 14 January 2008

2 PROCEDURE

The panels have been immersed in the water phase for 1/3, in the Jet Fuel phase (Jet A-1) for 1/3 and exposed to the vapour above the Jet Fuel for the last 1/3. The test temperature was 52 ± 1 °C. After 21 days the test has stopped and the panels have been inspected visually. After 24 hours conditioning at 23 °C and 50 % relative humidity, the adhesion has been determined according to ASTM D 3359, method B. The test results have been compared with the requirements of specification MIL-PRF-4556F section 3.6.B.

3 RESULTS

System	Dry film thickness in μm	Visual defects front side	Visual defects coded side	Adhesion ASTM D3359 method B*
Transpoxy Masterbond	533 \pm 80 437 \pm 31 374 \pm 57	moderate discoloration in water phase	As front side	5A all three phases

* Method B refers to method A if dft > 125 μm .



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REPORT

Investigation of the Immersion resistance
in Jet Fuel of Transoxy Masterbond

Haarlem, 20 March 2008

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