

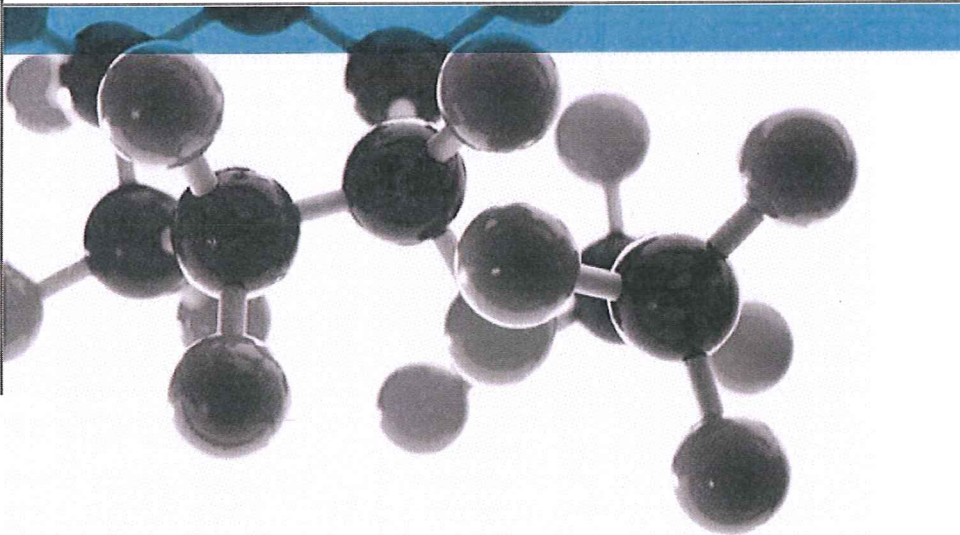
Exova (UK) Ltd
6 Coronet Way
Centenary Park
Salford
M50 1RE
United Kingdom

T : +44 (0) 161 787 3250
F : +44 (0) 161 787 3251
E : info@exova.com
W : www.exova.com



Test Certificate

Fuel Immersion Testing of Coated Samples



Fuel Immersion Testing of Coated Samples

A Report To: Kanat Boyacilik Ticaret As

Document Reference: N960480C

Date: 11/02/2013

Copy:

Issue No.: 1

Page 1

**Testing
Advising
Assuring**

Revision History

Issue No:	Re - Issue Date :
Revised By:	Approved By:
Reason for Revision:	

Issue No :	Re - Issue Date :
Revised By:	Approved By:
Reason for Revision:	

Contents

1.0	INTRODUCTION	4
2.0	TEST SPECIMENS	4
3.0	TEST METHOD	4
4.0	TEST EQUIPMENT	4
5.0	TEST CONDITIONS	4
6.0	TEST RESULTS	4
7.0	PHOTOGRAPHS	5

1.0 INTRODUCTION

- 1.1. At the request of Kanat Boyacilik Ticaret As, Exova Coatings was instructed to carry out fuel immersion testing on supplied coated samples.
- 1.2. Exova Coatings has tested the items supplied by Kanat Boyacilik Ticaret As, as sampled in accordance with the client's own requirements.
- 1.3. The purpose of the testing was to evaluate the performance of the supplied coated samples.

2.0 TEST SPECIMENS

- 2.1. Four specimens were received by the Laboratory.
- 2.2. Each specimen was given a unique ID in accordance with our quality system.
- 2.3. The test specimens received by the Laboratory were as follows:

Fuel Immersion:

- 4 x 19300 Kanepox Nova Premium panels, nominal dimensions of 150 x 75mm

3.0 TEST METHOD

- 3.1. Prior to testing, all samples had dry film thickness measurements taken in accordance with BS EN ISO 2808:2007 (eddy current method).
- 3.2. Testing was carried out in accordance with MIL PRF 4556F.
- 3.3. At the end of the test the samples were rinsed with deionised water, allowed to dry at ambient temperature and individually photographed.

4.0 TEST EQUIPMENT

- 4.1. Heraeus thermo scientific oven, serial no. 41135507
- 4.2. Elcometer 456 dry film thickness gauge, serial no. 25027/2
- 4.3. Elcometer 248.6µm and 508.9µm thickness standards
- 4.4. Testo 605-H1 digital hygrometer, serial no. CLTE05

5.0 TEST CONDITIONS

- 5.1. Fuel Immersion
 - Immersion medium: 50 / 50 blend of deionised water and JP-8 jet fuel
 - Panels immersed 1/3 water, 1/3 fuel and 1/3 vapour zone
 - Test temperature: 52°C ± 1°C
 - Exposure duration: 21 days

6.0 TEST RESULTS

6.1. Dry Film Thickness / Test Plan

Sample	Kanepox Coating System	Minimum (µm)	Maximum (µm)	Average (µm)	Standard Deviation
N960480-7	Nova Premium	201	240	223	10.0
N960480-8		200	251	225	13.1
N960480-9		166	232	208	16.3
N960480-10		207	232	220	7.08

6.2. Fuel Immersion

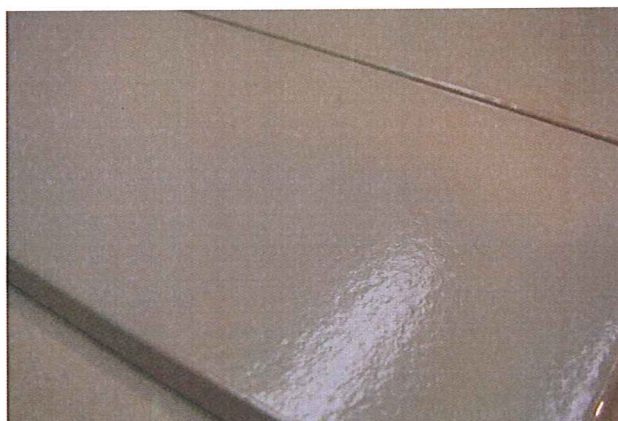
Sample	Result(s)
N960480-7	No softening of coating or loss of adhesion. Very slight darkening of area immersed in JP-8 fuel. No evidence of blistering.
N960480-8	
N960480-9	
N960480-10	

7.0 PHOTOGRAPHS

7.1. Fuel Immersion



N960480 7 – 9





N960480 7

The results contained within this report have been reported in an abbreviated format. The test data and result sheets containing more detailed information in accordance with the technical works procedures or standards used are held at Exova as part of the accredited quality assurance system. Opinions and interpretations expressed herein are outside the scope of the UKAS accreditation of this laboratory.

END OF TEXT

Report Signatories and Approval

Author	Jon Goldsby Coatings Technologist (For and on behalf of Exova (UK) Ltd) 
Approver	L. M. BARRON  OPERATIONS MANAGER (For and on behalf of Exova (UK) Ltd)