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ANALYSIS REPORT

(Industrial Services)

Report no : B.02.1.TBT.5.01.14.00-181.06.03- 1949
Report date : 21.12.2009 7120
Requested by : İZOBİL Yapı Kimyasalları Ticaret Ltd. Şti.
Address : : Koşuyolu Caddesi no : 65 Kadıköy / İSTANBUL
Subject : Investigation of the Effects of Mariseal 300 (Insulation Material) Product to Water

The results in this report are valid only for the analyzed sample.

Approved by

Dr. Özgen ERCAN
Environment Institute
Industrial Services Responsible Representative

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This report is prepared as two originals (one for the customer, one for the institute archives) and contains 3 pages

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Report no : B.02.1.TBT.5.01.14.00-181.06.03- 1949
Requested by : IZOBIL Yapı Kimyasalları Ticaret Ltd. Şti. 712
Address : Koşuyolu Caddesi no : 65 Kadıköy / ISTANBUL

Sample : Insulation Material	Expiry date :
Number of Sample : 1	Institute sample register no : 869
Sample Handling :	Reception date and time : 10/03/2006
Condition of sample at reception:	Date of the analysis : 07/03/2006-08/05/2006

Information on retention samples

() Sample returned to the customer (x) Retention sample available (i) Retention sample is not taken

The analysis of application form IZOBIL Yapı Kimyasalları Ticaret Ltd. Şti. was registered as document number of 3852.

Only one (1) Mariseal 300 "polyurethane water insulation membrane for liquid applications" sample was brought to TUBITAK – MAM Chemistry and Environment Institute by IZOBIL Yapı Kimyasalları Ticaret Ltd. Şti. along with the application form.

The parameters of the analysis required were indicated in the application form of the company. The sample was requested to be analysed according to the BS 6920 – 1 : 2000 standard, the parameters are given in Table 1.

The Mariseal 300 sample was prepared for the analysis according to the Membranı BS 6920 – 2.6 : 2000. The results of the analysis and its comparison with the standard and the related methods are given in Table 1.


Evaluation of the analysis result

IZOBIL Yapı Kimyasalları Ticaret Ltd. Şti. Mariseal 300 "polyurethane water insulation membrane for liquid applications" sample's analyse result shows that the sample was cope with the limits of the BS 6920 – 1 : 2000 standard. It was observed that the sample did not effect the water.

Notes: Over the last couple of years, there have been major changes in organizational structure, tasking, and reporting format at TUBITAK MAM. This current report, prepared in English and dated as of December 21, 2009, is adapted from the report issued in 2006.

Authorized Signatures:


Hüseyin Fahri YILMAZ
Senior Researcher


İşıl ATAÇOĞLU
Principal researcher

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Table 1: İZOBİL Yapı Kimyasalları Ticaret Ltd. Şti. Mariseal 300 "Polyurethane Water Inoculation Membrane For Liquid Applications" Sample Analysis Results and Analysis Methods BS 6920 - 1 : 2000 Standard Table 1 Limits

Parameters / Sample	1. day after		8. days after		BS 6920 - 1 : 2000 Table 1 Limits	
	Blank	Water	Blank	Water		
Aluminium (Al µg/l)	< 5	< 5	< 5	< 5	200	
Antimony (Sb µg/l)	< 1	< 1	< 1	< 1	5	
Arsenic (As µg/l)	< 1	< 1	< 1	< 1	10	
Barium (Ba µg/l)	< 8	< 8	< 8	< 8	1000	
Cadmium (Cd µg/l)	< 1	< 1	< 1	< 1	5	EPA 6020 A ICP - MS
Total Chromium (T. Cr µg/l)	< 1	< 1	< 1	< 1	50	
Iron (Fe µg/l)	< 1	< 1	< 1	< 1	200	
Lead (Pb µg/l)	< 1	< 1	< 1	< 1	25	
Manganese (Mn µg/l)	< 1	< 1	< 1	< 1	50	
Mercury (Hg µg/l)	< 0.5	< 0.5	< 0.5	< 0.5	1	SM-3112 AAS (Cold Vapour)
Nickel (Ni µg/l)	< 1	< 1	< 1	< 1	20	
Selenium (Se µg/l)	< 1	< 1	< 1	< 1	10	EPA 6020 A ICP - MS

SM Standard Methods For the Examination of Water and Wastewater, 21th Edition (2005)

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