



مختبر علوم التربة لفحص المواد GEOSCIENCE TESTING LABORATORY

REPORT ON BITUSEAL

Lab References:

Report No. : R1dx 14-8104 Report Date : 18/03/2014
Request No. : Q1dx 14-8104 Sample No. : S1dx 14-8104
Date Tested : 09/02/2014 – 16/03/2014
Tested By : MTK / PKV

Client References:

Project No. : Not Given
Project Name : Internal Quality Checking
Sender's Ref. : Not given
Client : Advance Construction Technology Services
Address : QATAR
Consultant : No Specific Consultant
Contractor : No Specific Contractor

1.0 Introduction

Further to the instruction received from M/s Advance Construction Technology Services., through test requisition R1dx14-8104 dated 26/01/2014 GTL has carried out following parameters on Bituseal 1500 CLX

- Tensile & Elongation
- Puncture Resistance
- Water Absorption
- Tear Strength
- Adhesion to Self
- Adhesion to primed concrete

2.0 Sample Details

Sample Description	: Bituseal 1500 CLX
Date of Sampling	: Not given
Date of Sample received	: 26/01/2014
Sampled by	: Contractor
Sample Submitted by	: Contractor
Source	: A C T S



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3.4 TEAR STRENGTH – (ASTMD 1004-07)

Specimen ID	Tear Strength (N/mm)	
	Longitudinal	Transversal
1	371.3	398.0
2	369.6	367.6
3	388.1	396.1
4	360.4	381.2
5	316.7	375.5
6	361.4	356.3
7	340.2	362.7
8	312.7	406.9
9	382.2	411.8
10	339.6	405.0
Average	354.2	386.1

3.5 Adhesion to self (ASTM D 1000 - 04)

Specimen No.	Width (mm)	Adhesion Strength (N/mm)
1	25.4	2.1
2	25.4	2.0
3	25.4	2.0
Average		2.0

3.6 Adhesion to primed concrete (ASTM D 1000 - 04)

Specimen No.	Width (mm)	Adhesion Strength (N/mm)
1	25.4	2.3
2	25.4	2.3
3	25.4	2.2
Average		2.3

4.0 Remarks: None

- Results relates only to the samples tested.
- Test reports shall not be reproduced (except in full) with out the written approval of the laboratory

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For GEOSCIENCE TESTING LABORATORY
Sunny Paily
Technical Manager
(Materials)



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3.0 TEST RESULTS

3.1a. TENSILE STRENGTH & ELONGATION - Longitudinal (ASTM D 638 – 03)

Specimen No.	Width (mm)	Thickness (mm)	Load (N)	Tensile strength (N/mm ²)	Elongation (%)
1	6.0	0.100	27.9	46.5	241.0
2	6.0	0.100	26.3	43.8	209.0
3	6.0	0.101	28.2	46.5	244.6
4	6.0	0.101	26.4	43.6	227.1
5	6.0	0.100	31.4	52.4	268.9
Average				46.6	238.1

3.1b. TENSILE STRENGTH & ELONGATION - Transversal (ASTM D 638 – 03)

Specimen No.	Width (mm)	Thickness (mm)	Load (N)	Tensile strength (N/mm ²)	Elongation (%)
1	6.0	0.100	30.2	50.2	180.9
2	6.0	0.101	30.5	50.4	195.9
3	6.0	0.101	31.7	52.4	199.3
4	6.0	0.102	31.8	51.9	208.3
5	6.0	0.100	32.3	53.8	201.5
Average				51.7	197.2

3.2 PUNCTURE RESISTANCE (ASTM E 154 -99)

Specimen ID	Max Force (N)	Deflection (mm)	Type of failure
1	249	60	Satisfactory
2	248	61	
3	254	59	
Average	250	60	

3.3 Water Absorption (ASTM D 570 - 98)

Average water absorption @ 24 hrs immersion (%)	0.04
Average water absorption @ 35 days immersion (%)	0.74

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مختبر علوم التربة لفحص المواد GEOSCIENCE TESTING LABORATORY

REPORT ON DETERMINATION OF WATER VAPOUR TRANSMISSION

Lab References:

Report No. : R1Dx14-22289 Report Date : 01/03/2014
Request No. : Q1Dx14-22289 Sample No. : S1Dx14-22289
Date Tested : 26/02/2014 – 27/02/2014
Tested by : HC

Client References:

Project No. : Not Given
Project Name : Internal Quality Checking
Client : Advance Construction Technology Services
Address : Qatar
Senders Ref No. : Not Given
Consultant : No Specific Consultant
Contractor : No Specific Contractor

1.0 Introduction

Further to the instruction received from the M/s Advance Construction Technology Services, through test requisition dated 25/02/2014, Determining of Water Vapour Transmission of Bitu Seal 1500 CLX was requested and has been subcontracted to Material Lab, Dubai.

2.0 Sample Details:

Sample Description	: Bitu Seal 1500 CLX
Source	: ACTS
Temperature & R.H	: 23 ⁰ C & 50 %
Duration of Testing	: 24 Hours
Diameter of test dish	: 100 mm
Date of Sampling	: Not Given
Date of Sample Received	: 26/01/2014

3.0 Test Results:

Test Name	Unit	Result
Water Vapour Transmission	g/m ² /24 hour	0.27

4.0 Remarks: None

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