

**TEST REPORT ON TENSILE STRENGTH & ELONGATION**

Client	Bautech Chemical Industries L.L.C P.O.Box : 23054 Ajman, UAE.		
Sample Description	BAUCOAT HP	Lab Report No.	WLRP20-1822/2
Source	Bautech Chemical Industries L.L.C	Sample No.	WSP20-1822/2
Client's Ref.	BAUCOAT HP (Applied Sample)	Date Received	05/07/2020
Curing and test condition	Temperature: 23°C Relative Humidity: 50%	Casting Date	29/06/2020
Sampling Method	ASTM D412-16	Curing Time	7 days
Test Method	ASTM D412-16	Date Tested	06/07/2020
Specimen Type	Test Method A – Die C	Date Reported	07/07/2020
Rate of Speed	500 mm/minute	Tested By	SI

Test Results

Specimen Number	Width (mm)	Thickness (mm)	Maximum Force (N)	Tensile Strength (N/mm ²)	Elongation (%)
1	6.0	0.87	11.9	2.280	444
2	6.0	0.88	11.4	2.159	419
3	6.0	0.82	10.8	2.195	398
4	6.0	0.90	11.8	2.185	510
5	6.0	0.81	10.6	2.181	410
Average				2.200	436

Remarks: Sample prepared by client.

Signed for and on behalf of Wimpey Laboratories

Visakh S Nair
Laboratory Supervisor

Test results relate only to the samples tested

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TEST REPORT ON CRACK BRIDGING ABILITY

Client	Bautech Chemical Industries LLC. P.O.Box: 23054, Ajman, UAE.		
Project Name	N.G	Lab Report No.	WLRP20-2677
Sample Description	Baucoat HP	Sample No.	WSP20-2677
Source	Bautech Chemical Industries LLC.	Date Received	29/09/2020
Test Method	ASTM C1305/C1305M-16	Casting Date	03/10/2020
Nature of Substrate	Concrete	Date Tested	24/10/2020
Substrate Dimension(mm)	75 W x 150 L	Date Reported	24/10/2020
Sampling Conditioning	Temperature: 23°C Relative Humidity: 50%	No. of coat & Method of application	2 Coat, Brush
Test Condition	Temperature: 23°C Relative Humidity: 50%	Tested By	SU

Test Results

Test	Crack width (mm)	Observation
Crack Bridging Ability	1.7	No sign of cracks, loss of adhesion or any other type of failure was observed after completion of the up and down movement.

Remarks: None.

Signed for and on behalf of Wimpey Laboratories

S. Sarath Kumar
Senior Technician

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**TEST REPORT ON TEAR STRENGTH**

Client	Bautech Chemical Industries LLC. P.O.Box: 23054, Ajman, UAE.		
Sample Description	Baucoat HP	Lab Report No.	WLRP20-3131
Source	Bautech Chemical Industries LLC.	Sample No.	WSP20-3131
Client Reference	N.G	Date Received	01/11/2020
Test Method	ASTM D624-12	Casting date	25/10/2020
Curing Conditioned	23°C and 50% R. Humidity	Curing time	7 Days
Type of machine used	UTM Machine H25KT	Date Tested	01/11/2020
Type of test piece	Type C (die cut)	Date Reported	01/11/2020
Room Temperature	23°C	Sample brought in by	Client
Relative Humidity	50%	Speed of Testing	500 mm/minute
Type of Grips used	Self-Tightening Roller Grips	Tested By	SI

Test Results

Specimen Number	Specimen Thickness (mm)	Maximum Force (N)	Tear Strength (N/mm)
1	1.18	21.3	18.0
2	1.19	23.0	19.3
3	1.23	22.5	18.3
4	1.22	23.0	18.8
5	1.19	21.8	18.3
Average			18.5
Standard Deviation			0.52

Remarks: None

Signed for and on behalf of Wimpey Laboratories

S.Sarath Kumar
Senior Technician

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TEST REPORT ON PULL-OFF ADHESION STRENGTH

Client	Bautech Chemical Industries L.L.C. P.O.Box: 23054, Ajman, UAE.		
Project Name	N.G	Lab Report No.	WLRP20-3189/2
Sample Description	Baucoat HP	Sample No.	WSP20-3189
Source	Bautech Chemical Industries L.L.C	Date Received	05/11/2020
Client Reference	N.G	Date Tested	15/11/2020
Consultant	N.G	Date Reported	16/11/2020
Contractor	N.G	Cast Date	08/11/2020
Test Method	ASTM D4541-17	Sampling Date & Sampling Time	N.G
Test Type	Type 5-Self Aligning Tester	Substrate Used	Concrete
Machine Details	Manufacturer: Elcometer Model: F510-50T Serial Number: WA22213.	Adhesive Used	Two Component Epoxy
Location	In-House	Age of Test	7 Days
Test Temperature & Relative Humidity	23°C & 50%	Tested By	SP

Test Procedure

The general pull-off test is performed by securing a loading fixture (dolly, stud) normal (perpendicular) to the surface of the coating with an adhesive. After the adhesive is cured, a testing apparatus is attached to the loading fixture and aligned to apply tension normal to the test surface. The force applied to the loading fixture is then gradually increased and monitored until either a plug of material is detached, or a specified value is reached. When a plug of material is detached the exposed surface represents the plane of limiting strength within the system. The nature of the failure is qualified in accordance with the percent of adhesive and cohesive failures, and the actual interfaces and layers involved.

The pull-off strength is computed based on the maximum indicated load

Description	RESULTS		
Test Number	1	2	3
Test Position	Vertical	Vertical	Vertical
Diameter of Dolly (mm)	20	20	20
Max. Load Applied (N)	747.3	756.7	785.0
Pull off Strength (N/mm ²)	2.38	2.41	2.50
Average Pull off Strength (N/mm ²)	2.43		
Mode of Failure	Cohesive failure observed from Sample		

Remarks: None.

Signed for and on behalf of Wimpey Laboratories,

S. Sarath Kumar
Senior Technician

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TEST REPORT ON ADHESION IN PEEL

Client	Bautech Chemical Industries L.L.C P.O.Box : 23054 Ajman, UAE.		
Sample Description	Baucoat HP	Lab Report No.	WLRP20-3189/1
Source	Bautech Chemical Industries L.L.C	Sample No.	WSP20-3189
Test condition	Temperature: 23°C Relative Humidity: 50%	Date Received	05/11/2020
Test Specification	ASTM C957/C957M-17	Casting Date	08/11/2020
Test Method	ASTM C794-18	Curing Time	7 Days
Substrate Used	Concrete	Date Tested	15/11/2020
Primer Used	N/A	Date Reported	17/11/2020
Rate of Speed	50 mm/minute	Tested By	SP
Curing Condition	7 days normal curing at 23°C & 50% RH		

Test Results

Test	Width (mm)	Maximum Force (N)	Peel Strength (N/mm)
Adhesion in Peel	25.0	69.5	2.78
	25.0	72.6	2.90
	25.0	81.9	3.28
	25.0	89.6	3.58
	25.0	85.8	3.43
Average		79.9	3.19

Remarks: None.

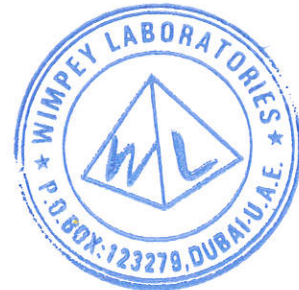
Signed for and on behalf of Wimpey Laboratories

S. Sarath Kumar
Senior Technician

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LABORATORY REPORT

Bautech Chemical Industries
P.O Box 23054
Ajman, UAE.

Report No: WD-R-240215-0773
Sample No: WD-S-240215-0689
Date of Report: 26/02/2024

Introduction: As per the request received from **M/s. Bautech Chemical Industries.** on 15th February 2024, the sample of BAUCOAT HP was tested. Given below are the results obtained.

Sample Description : Waterproof and Protective Coating
Request Number : WD-Q-240215-0268
Sample Date Received : 15/02/2024.
Date Tested : 16/02/2024-26/02/2024.
Tested By : MR

General Information

Name Of the product : BAUCOAT HP

Solar Reflectance Index (SRI)

Test methods

Emissivity : ASTM C 1371
Solar reflectance : ASTM C 1549
SRI for wind condition (Low, Medium, High): ASTM E 1980:01

Thermal emissivity: 0.78		Solar reflectance (%): 92.0	
Condition	Low wind (0-2 m/s)	Medium wind (2-6 m/s)	High wind (6-30 m/s)
Convective coefficient, (W/(m ² K))	5.0	12.0	30.0
Roof surface temperature (°C)	39.7	38.6	37.7
Solar reflectance index, SRI	117	116	115

Note: Uncertainty measurement: 0.12%.

Remark: None

Signed for and on behalf of Wimpey Laboratories LLC



Anandu VS
Section Incharge Chemistry-Specialty

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