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	As per IS2645, RenderCon Super complies to Integral waterproofing compound	

	1	COMPRES	SSIVE STRENO	GTH OF MAN	COMPRESSIVE STRENGTH OF MANUFACTURE SAND VS RENDRCON	ND Vs RENDRC	NO	
Sl.no	Description	Date of Casting	Age in Days	Weight (Gms)	Load (KN)	Strength (N/mm ²)	Avg.Strength (N/mm ²)	Remarks
÷.				714	73.8	14.82		
2	Site Mixing 1 : 4 Ratio Cement : Manufacture Sand & Rendercon 'Super'(with	05.07.2017	28	718	74.3	14.92	15.29	
3				716	80.4	16.14		
Sl.no	Description	Date of Casting	Age in Days	Weight (Gms)	(KN)	Strength (N/mm ²)	Avg.Strength (N/mm ²)	Remarks.
1				778	48.10	9.66		
2	Site Mixing 1 : 4 Ratio Cement : Manufacture sand (with curing)	05.07.2017	28	828	49.80	10.00	9,53	
3				766	44.50	8.94		

SPRE SITE - PARKWEST PHASE-01 BANGALORE PLASTERING CUBE REGISTER



	кетагкз		11	(with Crushed Sand, No	curing done)				
Signature	Client								
Signa	SPCL								
Avg. Comp. Strength	28 Days					20.67			
Avg. Com	7 Days		16.93						
Comp. Strength	28 Days				20.81	20.81	20.4		
Comp.	7 Days	18.36	15.10	17.34					
Load	kN	06	74	85	102	102	100		
Cube	Weight	0.740	0.740	0.730	0.727	0.727	0.735		
Testing Date	28th Day				-				
Testin	7th Day	3-Jun-17 10-Jun-17							
Casting	Date			51 and 6					
	NIN			Mortar	Mix 1:4				
	LOCATION		T3 External	plastering with	Rendercon Mix 1:4 "SUPER "	Admixture.			
Cube	Q			~	4				



REPORT ON:

PULL OFF TEST ON EXTERNAL PLASTERED SURFACE OF WALL OF GLEN CLASSIC AT HOUSE OF HIRANANDANI, KODIGEHALLI MAIN ROAD, BHADRAPPA LAYOUT HEBBAL, BANGALORE

REPORT FOR:

M/s. Rendercon Chem Private Limited 6-2-47, 1st Floor A C Guards, Lakdipaul Hyderabad-500 004

MONTH / YEAR:

AUGUST -2017

Bureau Veritas India Pvt. Ltd. # 1030, 13th Cross, Banashankari, 2nd Stage, Bangalore 560070



Report on	:	Pull off test on external plastered surface of
		wall of Glen Classic at House of Hiranandani,
		Kodigehalli Main Road, Bhadrappa layout
		Hebbal, Bangalore.
Report for	:	M/s. Rendercon Chem Pvt Ltd
		6-2-47, 1st Floor, A C Guards , Lakdikapaul
		Hyderbad-500 004
Reference		email dt. 3 rd August 2017
Period of Test	•	8th August 2017
Test carried out under	(1)	Sri. S Manoranjan
the guidance of		Manager
		NDT R & R Services
Test carried out by	:	Mr. Prasanna N Hegde
		Engineer (NDT)
		Mr. Srikanth
		Testing Assistant
Test carried out in presence of	:	Mr.M Srinivasa Reddy
		M/s. Rendrcon Chem Pvt Ltd
		Mr. Krishna and Mr.G S Sridhar
		M/s. JMC
		Bangalore
		Mr. K Daniel Deen Dayal
		Sr. Manager (QA)
		House of Hiranandani
Date of submission of report		14 th August 2017

BUREAU VERITAS INDIA PRIVATE LIMITED

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A.	INTRODUCTION
B.	DETAILS OF TEST
C.	CONCLUDING REMARKS

APPENDIX

TABLE PHOTOGRAPHS

A. INTRODUCTION

The construction of "House of Hiranandani at Kodigehalli Main Road, Bhadrappa Layout Hebbal Bangalore is under progress. The concerned authorities of M/s. Rendercon Chemicals Pvt Ltd desired to verify the bond strength / adhesion strength of external wall plaster at Wing C using manufactured sand and Rendercon super admixture.

Hence, a reference was made to Bureau Veritas India Private Limited, Bangalore to carry out the appropriate test to ascertain the bond strength of the plaster using manufactured sand and Rendercon Super admixture.

In response to this, Dyna Pull Off test was carried out by us during 7th & 8th August 2017 on identified regions of wall plaster in order to assess the bond/adhesion strength of plaster using Dyna Pull Off tester. This report, in brief, summarizes the outcome of the test carried out and conclusion made there on.

B. DETAILS OF TEST

Dyna Pull-Off tester

In order to verify/assess the bond /adhesion strength of plaster , Pull Off test was carried out using Dyna Pull-Off tester from M/s. Proceq, Switzerland.

The identified region of plaster was separated from the surrounding area using core cutting equipment, to achieve defined circular surface. The test disc of the pull off test was fixed / glued to the plastering using quick setting adhesive and the same was pulled off after completion of setting time. The failure load was recorded for further interpretation. The test was carried out at three identified plastered locations of wall plastering manufactured sand & Rendercon Super. The results are furnished in **Table-1**.

From the results of Dyna Pull-Off test, it is revealed that ;

The bond/adhesion strength of plaster on identified regions of wall plaster using manufactured sand is in the range of **0.53 to 0.84 N/mm²** as against the minimum tensile strength of **0.14 N/mm²**.

C. CONCLUDING REMARKS

However, the minimum tensile strength of mortar required as per IS 1905, cl.5.4.2 is specified as 0.14 N/mm². Hence the test results are satisfactory.

For BUREAU VERITAS INDIA PRIVATE LIMITED

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PADMANABHA P ASST. Manager NDT & R R Services

TABLE-1

RESULTS OF PULL OFF TEST

Project		Hiranandani Glen Classic, Kodigehalli Main Road, Bhadrappa layout, Hebbal, Bangalore.
Members Tested		Wall Plaster
Period of Test	:	7 th & 8 th August 2017
Proportion of Mortar	:	1:4
Age of plaster at test		More than 28 days*
Test Instrument	•	Dyna Z Pull Off Tester
Make		M/s. Proceq, Switzerland
Type of adhesive used i	for:	Araldite – Klear (Superfast)
test disc		

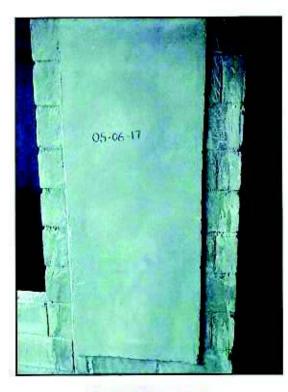
Technical reference : ASTM-D 4541 - 85

SL. No	Building/ Floor / Tested member*	Thickness of plaster	Maximum Force Applied (KN)	Adhesion/ Bond Strength (N/Sq.mm)	Remarks
	Plaster using manuf	actured sand & 370 gm per bag		iper admixture	
1	Glen Classic Wing- C- 1 st floor Flat No.	15mm	1.66	0.84	Bond Failure
2	107 Living Room Rain Water Shaft	15mm	1.06	0.53	Failure within the plaster
3	Column No. SW/2	15mm	1.10	0.56	Bond Failure

*As furnished by the customer.

M/s.Rendercon, Bangalore (AUGUST-2017) (Pull-off test)





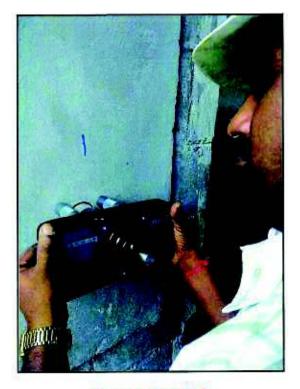
View of Demo Wall



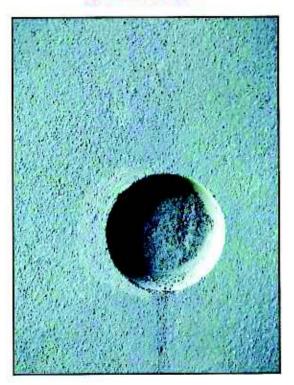
View of dolly fixing

M/s.Rendercon, Bangalore (AUGUST-2017) (Pull-off test)





View of Pull-off test



View of failure mode



REPORT ON:

PULL OFF TEST ON EXTERNAL PLASTERED SURFACE OF WALL AT BRIGADE ORCHARDS SCHOOL, BANGALORE

REPORT FOR:

M/s. Rendercon Chemical Private Limited 6-2-47, 1st Floor A C Guards, Lakdipaul Hyderabad-500 004

MONTH / YEAR:

OCTOBER -2017

Bureau Veritas India Pvt. Ltd. # 1030, 13th Cross, Banashankari, 2nd Stage, Bangalore 560070



Report on		Pull off test on external plastered surface of wall at Brigade Orchards School, Bangalore.
Report for	:	M/s. Rendercon Chemical Pvt Ltd 6-2-47, 1 st Floor, A C Guards , Lakdikapaul Hyderbad-500 004
Reference	:	E-mail dt. 21.10.2017
Period of Test	:	24th & 25th October 2017
Test carried out under the guidance of		Sri. S Manoranjan Manager NDT R & R Services
Test carried out by	•	Mr. Prasanna N Hegde Engineer (NDT)
		Mr. Swamynayaka H R Testing Assistant
Test carried out in presence of	ł	Mr.Budhan Bera Engineer (QA & QC) M/s. MFAR Constructions
		Mr. Rumaan Ahmed, Technical Executive M/s. Rendrcon Chem Pvt Ltd
Date of submission of report	•	27.10.2017

BUREAU VERITAS INDIA PRIVATE LIMITED

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- A. INTRODUCTION
- B. DETAILS OF TEST
- C. CONCLUDING REMARKS

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TABLE PHOTOGRAPHS

A. INTRODUCTION

The construction of "Brigade Orchards School" building at Devahnahalli, Bangalore is under progress. The concerned authorities of M/s. Rendercon Chemicals Pvt Ltd desired to verify the bond strength / adhesion strength on external wall plaster using manufactured sand and Rendercon super admixture.

Hence, a reference was made to Bureau Veritas India Private Limited, Bangalore to carry out the appropriate test to ascertain the bond strength of the plaster using manufactured sand and Rendercon Super admixture.

In response to this, Dyna Pull Off test was carried out by us during 24th & 25th October 2017 on identified regions of wall plaster in order to assess the bond/adhesion strength of plaster using Dyna Pull Off tester. This report, in brief, summarizes the outcome of the test carried out and conclusion made there on.

B. DETAILS OF TEST

Dyna Pull-Off tester

In order to verify/assess the bond /adhesion strength of plaster , Pull Off test was carried out using Dyna Pull-Off tester from M/s. Proceq, Switzerland.

The identified region of plaster was separated from the surrounding area using core cutting equipment, to achieve defined circular surface. The test disc of the pull off test was fixed / glued to the plastering using quick setting adhesive and the same was pulled off after completion of setting time. The failure load was recorded for further interpretation. The test was carried out at three identified locations of wall using manufactured sand & Rendercon Super. The results are furnished in **Table**.

From the results of Dyna Pull-Off test, it is revealed that ;

The bond/adhesion strength of plaster on identified regions of wall plaster using manufactured sand is in the range of **0.29 to 0.57 N/mm²**.

C. CONCLUDING REMARKS

However, the minimum tensile strength of mortar required as per IS 1905, cl.5.4.2 is specified as **0.14 N/mm²**. Hence the test results are satisfactory.

Padmanaby

PADMANABHA P Assistant Manager- NDT

BUREAU VERITAS (INDIA) PVT. LTD.

BUREAU VERITAS

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TABLE

RESULTS OF PULL OFF TEST

Project	:	Brigade Orchards School at Devanahalli, Bangalore
20 EAR 200 EL 20 100 EL 20		(Mfar Constructions Pvt. Ltd.)
Members Tested	:	External wall plaster
Thickness of Plaster	:	20 mm*
Dates of Test		24th & 25h October 2017
Test Instrument	:	Dyna Z Pull Off Tester
Make		M/s. Proceq, Switzerland
Type of adhesive used for test disc	••	Araldite – Klear (Superfast)
Technical reference	•	ASTM-D 4541 - 85

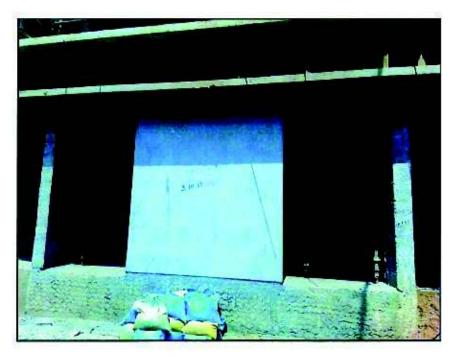
SI. No.	Test Location*	Thickness of Plaster* (mm)	Maximum Force Applied (KN)	Adhesion/Bond Strength (N/Sq.mm)	Remarks	
		Admin	block – Near P	rinciple room		
1.	Left side	20	1.12	0.57		
2.	Centre	20	0.71	0.36	Bond failure b/w wall & plaster	
3.	Right side	20	0.57	0.29		

* As furnished by the customer.

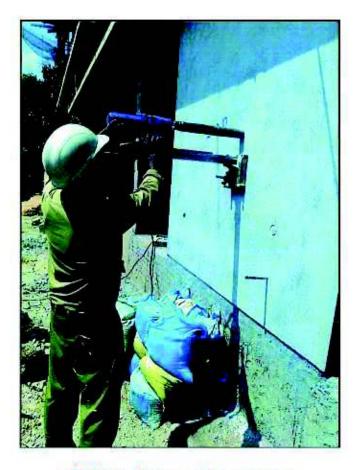
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Ψ.

Rendercon "Brigade Orchards School" at Devanahalli, Bengaluru (October 2017)



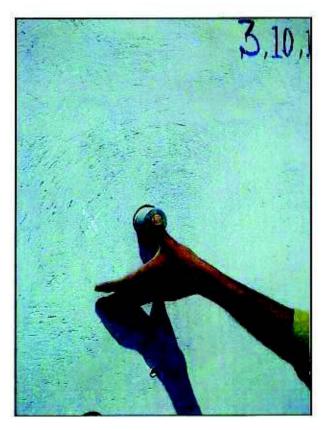
View of testing location



Making of groove in progress

Rendercon "Brigade Orchards School" at Devanahalli, Bengaluru (October 2017)

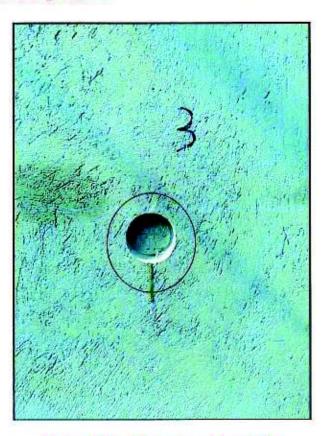




Fixing of test discs in progress



Pull-off test in progress



View of failure at test location

Rendercon "Brigade Orchards School" at Devanahalli, Bengaluru (October 2017)





View of failure modes



REPORT ON:

PULL OFF TEST ON EXTERNAL PLASTERED SURFACE OF WALL OF SPARE PARK WEST PHASE-1, BINNYPET MAGADI ROAD, BANGALORE

REPORT FOR:

M/s. Shapoorji Pallonji & Co Pvt Ltd 7th Floor, Surya Chambers , No.124, HAL Airport Road Bangalore

MONTH / YEAR:

AUGUST -2017

Bureau Veritas India Pvt. Ltd. # 1030, 13th Cross, Banashankari, 2nd Stage, Bangalore 560070



Report on	*	Pull-Off Test on identified regions of plastered surface of wall at Spare Park West Phase-1 project at Binnypet, Magadi Road, Bangalore
Report for	ł	M/s. Rendercon Chem Pvt Ltd 6-2-47, 1st Floor, A C Guards , Lakdikapaul Hyderbad-500 004
Reference		email dt. 26 th July 2017
Period of Test		27th & 28th July 2017
Test carried out under the guidance of	į	Sri. S Manoranjan Manager NDT R & R Services
Test carried out by	1	Mr. Prasanna N Hegde Engineer (NDT)
		Mr. Ajith Testing Assistant
		Mr.M Srinivasa Reddy M/s. Rendrcon Chem Pvt Ltd
		Mr. Krishnamurthy G R Engineer –QA/QC M/s. SPCL Bangalore
		Mr. Suresh Thangaraj M/s. SPRE
Date of submission of re	port:	4 th August 2017

BUREAU VERITAS INDIA PRIVATE LIMITED

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TABLE PHOTOGRAPHS

A. INTRODUCTION

The construction of "Spare Park West phase-1 "at Binnypet, Magadi Road, Bangalore is under progress. The concerned authorities of M/s. Rendercon Chemicals Pvt Ltd desired to verify the bond strength / adhesion strength of external plaster on r c wall at Tower-3, Cluster A between ground floor to 1st floor using manufactured sand and Rendercon super admixture.

Hence, a reference was made to Bureau Veritas India Private Limited , Bangalore to carry out the appropriate test to ascertain the bond strength of the plaster using manufactured sand and Rendercon Super admixture.

In response to this, Dyna Pull Off test was carried out by us during 27th & 28th July 2017 on identified regions of wall plaster in order to assess the bond/adhesion strength of plaster. This report, in brief, summarizes the outcome of the test carried out and conclusion made there on.

B. DETAILS OF TEST

Dyna Pull-Off tester

In order to verify/assess the bond /adhesion strength of plaster , Pull Off test was carried out using **Dyna Pull-Off tester** from **M/s. Proceq, Switzerland**.

The identified region of plaster was separated from the surrounding area using core cutting equipment, to achieve defined circular surface. The test disc of the pull off test was fixed / glued to the plastering using quick setting adhesive and the same was pulled off after completion of setting time. The failure load was recorded for further interpretation. The test was carried out at three identified plastered locations of wall plastering manufactured sand & Rendercon Super . The results are furnished in **Table-1**.

From the results of Dyna Pull-Off test, it is revealed that ;

The bond/adhesion strength of plaster on wall using manufactured sand is in the range of **0.26 to 0.90 N/mm²**.

C. CONCLUDING REMARKS

However, the minimum tensile strength of mortar required as per IS 1905 , cl.5.4.2 is specified as 0.14 N/mm^2 . Hence the test results are satisfactory.

For BUREAU VERITAS INDIA PRIVATE LIMITED

Morangue S MANORANJAN

Manager NDT & R R Services **BUREAU VERITAS INDIA PRIVATE LIMITED**

TABLE-1

RESULTS OF PULL OFF TEST

Project	:	Spare Park West Phase-1 project at Binnypet, Magadi Road, Bangalore
Members Tested	:	Wall Plaster at Tower-3, Cluster A CZ-CX/C24 Ground to 1 st floor level.
Period of Test		27th & 28th July 2017.
Proportion of Mortar		1:4
Age of plaster at test	:	More than 28 days*
Test Instrument		Dyna Z Pull Off Tester
Make		M/s. Proceq, Switzerland
Type of adhesive used fo	r:	Araldite – Klear (Superfast)
test disc		

Technical reference :

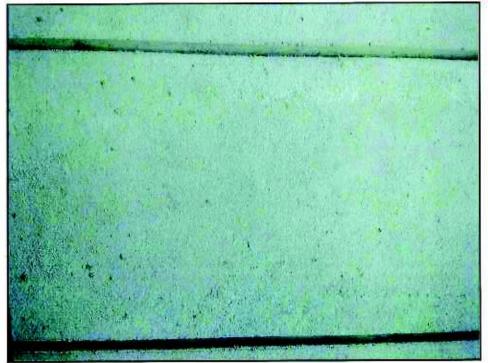
ASTM-D 4541 - 85

SL. No	Building/ Floor / Tested member*	Thickness of plaster	Maximum Force Applied (KN)	Adhesion/ Bond Strength (N/Sq.mm)	Remarks
	Plaster using manua				
1	Tower-3, Cluster A CZ-CX/C24 Ground to 1 st floor level	30mm	1.06	0.53	Failure within
2		30mm	0.52	0.26	the plaster
3.		30mm	1.77	0.90	

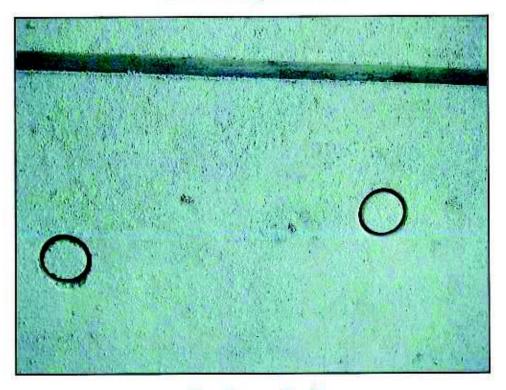
*As furnished by the customer.

M/s. Render Con, Bangalore (JULY-2017)





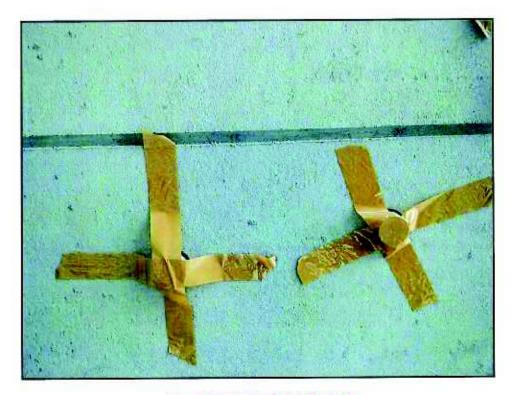
View of external plastered wall



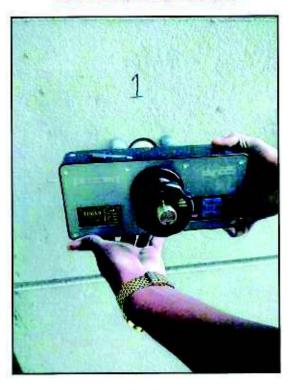
View of grooved wall

M/s. Render Con, Bangalore (JULY-2017)

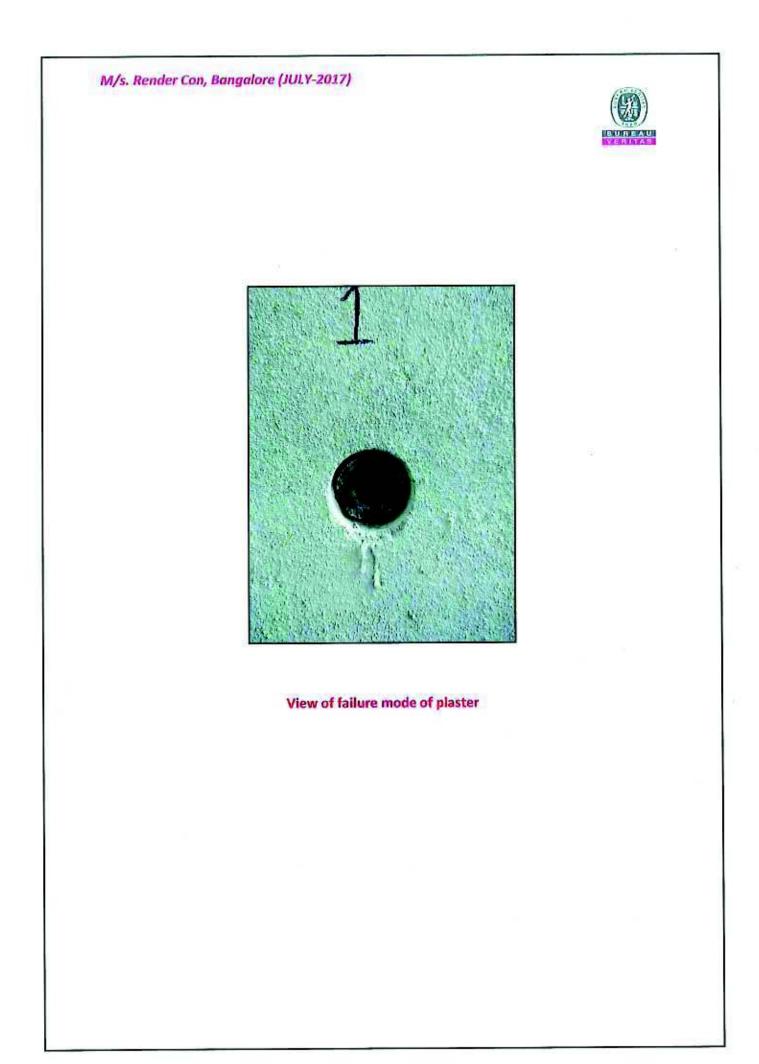




View of dolly fixed on the wall



View of pull-off test





REPORT ON:

PULL OFF TEST ON FLOOR TILE OF SHAPOORJI PALLONJI PARK WEST, BEHIND BINNEY MILL, BANGALORE

REPORT FOR:

M/s. Rendercon Chem Private Limited 6-2-47, 1st Floor A C Guards, Lakdipaul Hyderabad-500 004

MONTH / YEAR:

SEPTEMBER -2017

Bureau Veritas India Pvt. Ltd. # 1030, 13th Cross, Banashankari, 2nd Stage, Bangalore 560070



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Report on	:	Pull off test on Floor Tile of Shapoorji Pallanoji
		Park West, Behind Binney Mill, Bangalore.
Report for	:	M/s. Rendercon Chem Pvt Ltd
		6-2-47, 1st Floor, A C Guards , Lakdikapaul
		Hyderbad-500 004
Reference	:	E-mail dt.28.08.2017
Period of Test	*	2 nd & 4 th September 2017
Test carried out under	:	Sri. S Manoranjan
the guidance of		Manager
		NDT R & R Services
Test carried out by		Mr. Prasanna N Hegde
		Engineer (NDT)
		Mr. Srikanth
		Testing Assistant
Test carried out in presence of	:	Mr.M Srinivasa Reddy
2		M/s. Rendrcon Chem Pvt Ltd
		Mr. Venkata Subba Reddy
		QA/QC Manager
Date of submission of report	:	08.09.2017

A. INTRODUCTION

The construction of "Shapoorji Pallanji Park West at Binney Mill, Bangalore is under progress. The concerned authorities of M/s. Rendercon Chemicals Pvt Ltd desired to verify the bond strength / adhesion strength of tile adhesive using manufactured sand and Rendercon Super Admixture.

Hence, a reference was made to Bureau Veritas India Private Limited, Bangalore to carry out the appropriate test to ascertain the bond strength of the same.

In response to this, Dyna Pull Off test was carried out by us during 2nd & 4th September 2017 in order to assess the bond/adhesion strength of mortar using Dyna Pull Off tester. This report, in brief, summarizes the outcome of the test carried out and conclusion made there on.

B. DETAILS OF TEST

Dyna Pull-Off tester

In order to verify/assess the bond /adhesion strength of material, Pull Off test was carried out using Dyna Pull-Off tester from M/s. Proceq, Switzerland.

50mm x 50mm size tiles/stone were fixed at identified regions of using tile adhesive. After 14 days of self-curing period, the test disc for pull 1 off test was fixed / glued to the tile /stone surface using quick setting adhesive and the same was pulled off after completion of setting time. The failure load was recorded. The results are furnished in Table-1.

C. RESULTS OF TEST:

From the results of Dyna Pull-Off test it is revealed that, the bond/adhesion strength of tile adhesive at identified locations is in the range of 0.34 to 0.59N/sq.mm.

For BUREAU VERITAS INDIA PRIVATE LIMITED

Vadmandely

PADMANABHA P ASST. Manager

TABLE-1

RESULTS OF PULL OFF TEST

Project		Shapoorji & Pallnoji Park West, Binney Mill, Bangalore
Members Tested	-	Tile
Period of Test		2 nd & 4 th September 2017
Proportion of Mortar	:	1:4
Age of mortar at test		More than 14 days*
Test Instrument	:	Dyna Z Pull Off Tester
Make	:	M/s. Proceq, Switzerland
Type of adhesive used for:		Araldite – Klear (Superfast)
test disc		

Technical reference

: ASTM-D 4541 - 85

SL. No	Building/ Floor / Tested member*	Thickness of mortar	Maximum Force Applied (KN)	Adhesion/ Bond Strength (N/Sq.mm)	Remarks
	Mortar using manufa 37	ctured sand & 70 gm per bag	and the second second second second second	per admixture	
1	Towere-3 Cluster-A Plat No. 605, Kitchen Room	40mm	1.49	0.59	Bond Failure
2		40mm	0.87	0.34	Bond Failure
3		40mm	0.97	0.38	Bond Failure

*As furnished by the customer.



Test order / Report No. BVIPL: SPL: HL/347/4/2017 Date of Receipt: 04-04-2017 Dated: 15-06-2017

RENDERCON CHEM PRIVATE LIMITED

6-2-47, 1st Floor, A C Guarde, Lakdikapul, Hyderabad – 500 004

FINAL TEST REPORT ON WATER PROOFING COMPOUND SAMPLE

Source of sample	C:	Sample
Customer's Reference	\$	Lr No. 1
Sample Unique ID No	;	228437
Description*	:	Rendere
Material received on	:	04.04.20
Condition of samples		Satisfac
Test Method	4	IS: 2645

Sample supplied by the customer Lr No. Nil, Dated: 18.03.2017 228437 Rendercon SUPER 04.04.2017 Satisfactory IS: 2645 - 2003

		101 10 10 1		
Si. No.	Test Conducted	Result		Requirements as Per
		Control Sample	With Water Proof Compound	IS: 2645 - 2003
1	Standard Consistency (%)	27.1	<u>4</u> 0	2013
2	Initial Setting Time (Min)	155	165	Not less than 30 Minutes or not more than 25% of the actual initial setting time
3	Final Setting Time (Min)	250	255	Not more than 600 Minutes or not more than 25% of the actual Final setting Time
4	Compressive Strength (N/Sq. mm) 3 Days - 7Days	32.0 42.0	34.0 44.5	Not Less than 27 N/Sq. mm nor less than 90% of the 3 days compressive strength of mortar prepared with cement and sand only (i. e. 29.0 N/Sq. mm) Not less than 37 N/Sq. mm nor less than 90°, of the 7days compressive strength of mortar prepared with cement and sand only (i. e. 38.0 N/Sq. mm)
5	Permeability Test: The average water Percolation expressed as percentage of water percolation of control sample (%)		18.5	The average percolation (measures in millilitres of water) for the specimens incorporating the waterproofing compound shall be less than 50 percent of the average percolation in the case of specimens without the water proofer

* As furnished by the customer

Note: 1. The results relate only to the items tested.

Report shall not be reproduced, except in full, without the written approval of the laboratory
Any correction invalidates this report

For BUREAU VERITAS (INDIA) PRIVATE LIMITED.,

(Construction Services Laboratory) sed Signat

Bureau Veritas (India) Private Limited (Construction Services Laboratory) Shed No. F-2/B, Road No. 9 IDA Nacharam, Hyderabad - 500 076. India Tel.: +91 40 64584582 Fax: +91 40 29808066 lab.hyderabad@in.bureauveritas.com

Regd. Off. : Marwah Centre, 6th Floor K. Marwah Marg, Off Saki-Vihar Road Andheri (East), Mumbai - 400 072. India Tel.: +91 22 66956300 Fax: +91 22 66956309 www.bureauveritas.co.in CIN : U74210MH2001PTC134262 Offices/Labs at: Ahmedabad, Bangalore Baroda, Bhopal, Chennai, Cochin, Coimbatore, Delhi, Goa, Hubli, Indore Jaipur, Kakinada, Kandla, Kolkata, Ludhiana Mangalore, Nagpur, Nashik, Pune, Raipur Surat, Trichy & Visakhapatnam