





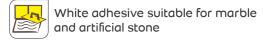
weberstone fix



Mable, granite and artificial stone upto size 60x60 cm on both floor and wall



Good bonding



weberstone fix is pre-mixed high quality white stone adhesive to mix with water for laying stone on both floor and wall

• SUITABLE FOR: ceramic tiles, clay tiles, granito tiles, marbles,

granites size up to 60 x 60 cm

• PACKAGING: 20 kg bag

• COLOR: white

COVERAGE: average 4 m2/20 kg bag

APPLICATION

Substrate preparation

- Substrate should be sound, level, and clean with normal absorption rate
- In case of porous substrate with high absorption, dampen the surface before tiling
- For new render or screed, it should be fully cured at the rate of 7 days per 1 cm thickness before laying

Mixing

Mixing weberstone fix in water with the ratio of 1:3 by volume (1 part of water + 3 parts of weberstone fix). Using slow-speed electric mixer to mix or gradually mix by hand until obtaining homogeneous lump-free paste. Leave for 3-4 minutes for chemical curing before using.

Tiling

- 1. Using notched trowel to spread stone adhesive onto substrate
- 2. Back buttering in case of laying stone bigger than 10 \times 10 inches
- 3. Placing stone on stone adhesive and knock gradually with rubber ham-
- 4. Clean the excess stone adhesive on stone surface
- 5. Stone can be adjusted within 15 minutes after laying
- 6. Leave for 24 hours before grouting

• SHELF LIFE AND STORAGE

One year after manufacturing date when stored unopened in dry and ventilated place. Store airtight in dry and ventilated conditions if remained in opened bag

TECHNICAL DATA

Teorinicae Data				
Туре	Standard tile adhesive			
Density of powder	1.4 g/cm³			
Chemical curing time	3 – 4 minutes			
Pot life (in shade)	4 hours			
Open time	20 - 30 minutes			
Adjusting time	15 minutes			
Recommended thickness	2 – 10 mm			
Waiting time before grouting	24 hours			

Remark: These test results are from laboratory test. They could be slightly different from on-site results because of the differences in applications and conditions

CERTIFED STANDARD

CCRTHCD	JIANDARD	
International/European standa	rd Standard	Result
Initial tensile adhesion strength ISO 13007 part 2-4.4.4.2 or EN 1348-8.2	≥ 0.5 N/mm²	1.65 N/mm²
Tensile adhesion strength after water immersion ISO 13007 part 2-4.4.4.3 or EN 1348-8.3	≥ 0.5 N/mm²	1.22 N/mm²
Open time tensile adhesion strength ISO 13007 part 2-4.1 or EN 1346	≥ 0.5 N/mm²	1.83 N/mm²
American Standard	Standard	Result
	days > 1.38 MPa day > 0.34 MPa	2.14 MPa 0.70 MPa

ANSI 118.1 - 2012				
- To glazed wall tiles	7 days	> 1.38 MPa	2.14 MPa	
- To porcelain mosaics	1 day	> 0.34 MPa	0.70 MPa	
	7 days	> 1.03 MPa	1.90 MPa	
	28 days	> 1.03 MPa	2.40 MPa	
	84 days	> 1.03 MPa	2.41 MPa	
				ĺ
Water immersion shear streng ANSI 118.2 – 2012	th according to			
- To glaze wall tiles	7 days	> 1.03 MPa	2.51 MPa	

7 days

- To porcelain mosaic



1.90 MPa

> 0.69 MPa



Structural Engineering Laboratory

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EXECUTIVE SUMMARY

The Structural Engineering Laboratory, School of Engineering and Technology, Asian Institute of Technology (AIT) was engaged by the SAINT-GOBAIN WEBER CO., LTD. to conduct the performance test of cementitlious tile adhesive. The sample with a trademark of "Weberstone fix" was provided by the SAINT-GOBAIN WEBER CO., LTD. The series of tests were according to ISO 13007 / European Norms (EN 12004:2007+A1:2012) as follows: Specification of cementitious adhesives

Fundamental Characteristics

1a Normal setting adhesives		- 4	*
Characteristic	Requirement	Test Method	Results
Tensile adhesion strength	≥ 0.5 N/mm ²	ISO 13007 part 2	1.65 N/mm ²
	- *	4.4.4.2 or EN 1348 § 8.2	PASS
Tensile adhesion strength after water immersion	≥ 0.5 N/mm ²	ISO 13007 part 2	1.22 N/mm ²
	· .	4.4.4.3 or EN 1348 § 8.3	PASS
Open time : tensile adhesion strength	≥ 0.5 N/mm ² after not less than 20 min	ISO 13007 part 2	. 1.83 N/mm²
	(4)	4.1 or EN 1346	PASS

From test results, it is found that the properties of "Weberstone fix" are conformed to ISO 13007 / European Norms.(EN 12004:2007+A1:2012) requirement. These results certify the adequacy and representative characteristic of the test samples only.

Reference No: S0268-18

Issued Date: 17/10/18

Checked & Approved

DR. ANAWAT CHOTESUWAN

SENIOR LABORATORY SUPERVISOR

October 17, 2018



Doc. No. S0268A-18

AIT

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STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST:

INITIAL ADHESION STRENGTH (EN 1348:2007)

TEST SPECIMEN:

Ten (10) specimens of ceramic tile of size $50 \times 50 \times 5$ mm, installed by using "Weberstone fix" were prepared in the SE laboratory. The mix proportion of water to

"Weberstone fix" ratio was 25.0 % by weight.

CLIENT:

SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST:

May 17, 2018

DATE OF PREPARATION:

April 19, 2018

TEST METHOD:

After finish the preparation, the test units were placed in standard conditions for 27 days. Bond the pull head plate to the tile with the high strength epoxy and keep the test units for a further 24 hour in standard condition. Determine

the tensile adhesive strength.

TEST RESULTS:

Specimen	Width	Length	Area	Maximum	Tensile	Remarks
No.	of	of		Load	Adhesion	
100000000000000000000000000000000000000	Specimen	Specimen			Strength	
	(mm.)	(mm.)	(mm²)	(N.)	(N/mm ²)	
1	50	50	2,500	3,934	1.57	Adhesive failure between tile and adhesive
2	50	50	2,500	4,792	1.92	Adhesive failure between tile and adhesive
3	50	50	2,500	3,129	1.25	Adhesive failure between tile and adhesive
4	50	50	2,500	4,428	1.77	Cohesive failure within the adhesive
5	50	50	2,500	4,814	1.93	Cohesive failure within the adhesive
6	50	50	2,500	3,758	1.50	Adhesive failure between tile and adhesive
7	50	50	2,500	4,288	1.72	Cohesive failure within the adhesive
8	50	50	2,500	3,981	1.59	Adhesive failure between tile and adhesive
9	50	50	2,500	3,960	1,58	Adhesive failure between tile and adhesive
10	50	50	2,500	4,047	1.62	Cohesive failure within the adhesive
				Average	1.65	

Note: This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:

MR. RUNGROJ JANGJIT

TECHNICIAN

CHECKED & APPROVED

DR. ANAWAT CHOCK SENIOR LABORATOR

June 8, 2018



Doc. No. S0268B-18



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STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST:

ADHESIVE STRENGTH AFTER WATER IMMERSION (EN1348:2007)

TEST SPECIMEN:

Ten (10) specimens of ceramic tile of size 50 x 50 x 5 mm. installed by using

"Weberstone fix" were prepared in the SE laboratory. The mix proportion of water to

"Weberstone fix" ratio was 25.0 % by weight.

CLIENT:

SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST:

May 21, 2018

DATE OF PREPARATION:

April 23, 2018

TEST METHOD:

After finish the preparation, the test units were placed in standard conditions for 7 days and stored in water for 20 days. Bond the pull head plate to the tile with the high strength epoxy and keep the test units for a further 24 hour in in water at the standard temperature. Determine the tensile adhesive strength.

TEST RESULTS:

Specimen	Width	Length	Area	Maximum	Tensile	Remarks
No.	of	of		Load	Adhesion	
	Specimen	Specimen			Strength	
	(mm.)	(mm.)	(mm²)	(N.)	(N/mm ²)	
1	50	50	2,500	2,692	1.08	Adhesive failure between tile and adhesive
2	50	50	2,500	2,845	1.14	Adhesive failure between tile and adhesive
3	50	50	2,500	2,049	0.82	Adhesive failure between tile and adhesive
4	50	50	2,500	2,724	1.09	Adhesive failure between tile and adhesive
5	50	50	2,500	3,320	1.33	Adhesive failure between tile and adhesive
6	50	50	2,500	3,560	1.42	Adhesive failure between tile and adhesive
7	50	50	2,500	2,473	0.99	Adhesive failure between tile and adhesive
8	50	50	2,500	3,281	1.31	Adhesive failure between tile and adhesive
9	50	50	2,500	4,606	1.84	Adhesive failure between tile and adhesive
10	50	50	2,500	2,910	1.16	Adhesive failure between tile and adhesive
				Average	1.22	

Note: This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:

MR. RUNGROJ JANGJIT

TECHNICIAN

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DR. ANAWAT OHOTESOWAN SENIOR LABORATORY SUPERVISOR

June 8, 2018



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STRUCTURAL ENGINEERING LABORATORY

STRUCTURAL ENGINEERING FIELD OF STUDY

SCHOOL OF ENGINEERING AND TECHNOLOGY

TYPE OF TEST:

OPEN TIME (EN1346)

TEST SPECIMEN: Forty (40) specimens of Ceramic tile of size 50 x 50 x 5 mm. installed by using

"Weberstone fix" were prepared in the SE laboratory. The mix proportion of water to

"Weberstone fix" ratio was 25.0 % by weight.

CLIENT:

SAINT-GOBAIN WEBER CO., LTD.

DATE OF TEST:

May 30, 2018

DATE OF PREPARATION: May 2, 2018

TEST METHOD:

Apply a thin layer of the adhesive to the concrete slab with a straight edge trowel. After 5, 10, 20 and 30 minutes place the tiles on the adhesive and storage them under standard conditions for 27 days. Bond the pull head plates to the tiles with the high strength epoxy and keep the test units for a further 24 hour in standard condition.

Determine the tensile adhesive strength.

TEST RESULTS:

5 (min.) 2.57 2.58	different oper 10 (min.) 2.68	time (N/mm²) 20 (min.)	30 (min.)
(min.) 2.57	(min.)	(min.)	8.2
2.57	` '		(min.)
20773	2 68		
250	2,00	2.03	0.84
2.00	2.10	1.79	1.70
1.81	1.58	1.86	1.16
2.42	2.43	1.64	0.95
2.04	1.91	1.84	1,52
2.24	2.00	1.77	1.62
2.23	2.34	1,68	1.22
1.98	1.88	1.88	1.09
2.26	2.43	1.58	1.42
2.11	1.84	2.18	0.97
2.22	2.12	1.83	1.25
	2.24 2.23 1.98 2.26 2.11	2.24 2.00 2.23 2.34 1.98 1.88 2.26 2.43 2.11 1.84	2.24 2.00 1.77 2.23 2.34 1.68 1.98 1.88 1.88 2.26 2.43 1.58 2.11 1.84 2.18

Note: This report certifies the adequacy and representative character of the test sample(s) only.

TESTED BY:

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June 8, 2018





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Tests of dry-set cement mortar according ANSI A118.1:2012 - weber stone.fix

Working report N° 315.37004-03/18

Client: Saint-Gobain Weber Co., Ltd - Thailand

Contact at client: Kanchana LOCOLAS Contact at CTCV: J. Valente de Almeida Work period: January - May 2018

Proj. nº 315.37004

Rep. nº 03

Revision:

Date: June 2018

http://www.ctcv.pt





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Os resultados apresentados neste trabalho referem-se apenas às amostras ensaladas. Não se assume qualquer responsabilidade relativa à exatidão da amostragem, a menos que seja efetuada sob a direta responsabilidade do CTCV A reprodução deste trabalho é autorizada apenas na sua forma integral. Para qualquer reprodução parcial será indespensável autorização do CTCV por escrito.

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Aim

Evaluate compliance of the test results with the requirements of ANSI A118.1: 20121.

1. Introduction

Saint Gobain Weber Co Ltd - Thailand requested the CTCV to carry out tests on dry-set cement mortar weber stone.fix - in accordance with the American Standard ANSI A118.1.

This report presents the methodology of the tests, the results of the tests carried out and their comparison with the applicable regulatory requirements

2. Methodology

The methodology used in the study was the following:

- -carrying out the tests
- -processing of data
- reporting

2.1. Tests

The tests carried out are presented at table 1.

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weber

¹ ANSI A118.1:2012 - American National Standard Specifications for Dry-Set Cement Mortar.



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Table 1 - Tests according ANSI A118.1

Property	Test duration and/or conditions
Glazed wall tile shear strength (A1)	7 days
Glazed wall the shear strength (AT)	7 days water immersion
	1 day
Develois massis tile shoot strongth	7 days
Porcelain mosaic tile shear strength (C)	7 days water immersion
	28 days
	12 weeks

2.2. Test results

The test results are presented at table 2.

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Table 2 - Test results

Ceramic	Test duration/condition	Specimen	Force (kN)	Tension (MPa)	Average (MPa
		1	10,71	2,08	
		2	10,53	2,04	2,14
	Shear initial, 7d	3	10,04	1,95	2,14
		4	12,98	2,52	
A1		1	12,28	2,38	
		2	14,23	2,76	2,51
	Shear, after 7 d water immersion	3	11,46	2,22	2,51
		4	13,76	2,67	
		1	1,29	0,69	
		2	1,09	0,58	0.70
	Shear initial, 1d	3	1,50	0,80	0,70
		4	1,38	0,74	
	Shear initial, 7d	1	3,85	2,06	1,90
		2	4,02	2,15	
		3	3,31	1,77	
		4	3,05	1,63	
		1	4,33	2,32	2,40
	Shear initial, 28d	2	4,33	2,32	
С		3	4,97	2,66	
_		4	4,30	2,30	
		1	3,38	1,81	
		2	4,18	2,24	2.41
	Shear initial, 12 weeks	3	5,50	2,94	2,41
		4	5,00	2,67	
		1	3,68	1,97	
		2	2,93	1,57	1,90
	Shear, after 7 day water immersion	3	3,87	2,07	1,90
STATE OF THE PARTY		4	3,72	1,99	

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3. Comparation with standard requirements

The comparation of test results with standard requirements is presented at Table 3.

Table 3 - Comparation of test results with standard requirements

Ceramic	Test duration/condition	Test result (MPa)	Requirements (MPa)	Compliance
14	Shear initial, 7d	2,14	>1,38	Complies
A1	Shear, after 7 d water immersion	2,51	>1,03	Complies
С	Shear initial, 1d	0,70	>0,34	Complies
	Shear initial, 7d	1,90	>1,03	Complies
	Shear initial, 28d	2,40	>1,03	Complies
	Shear initial, 12 weeks	2,41	>1,03	Complies
	Shear, after 7 day water immersion	1,90	>0,69	Complies

Coimbra, 04 June 2018

Joaquim Valente de Almeida

Testing Materials Laboratory

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