

## **Test Report**

SGS Korea Co., Ltd.

**Construction Materials Testing Center** 

Issue No.

CMT2020-1136R1

Address: 20, Dongtansandan 10-gil, Dongtan-myeon, Hwaseong-si, Gyeonggi-do, Korea, 18487

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https://www.sgsgroup.kr

1. Applicant

∘ Company: HANIL CEMENT Co., Ltd.

· Address: 330, Gangnam-daero, Gangnam-gu, Seoul, Korea

Receipt Date: December 09, 2019

2. Test Purpose: Maintenance of quality

3. Sample Description : Dry ready mixed cement mortar : clay vrick grout (CBG)

4. Date of Test: December 16, 2019 ~ January 10, 2020

5. Location of Test: ■ Permanent Testing Lab □ On Site Testing

(address: Concrete / Mortar Laboratory, SGS Korea Co., Ltd, 20 ,Dongtansandan 10-gil, Dongtan-myeon, Hwaseong-si, Gyeonggi-do)

6. Test Results:

No.	Test Items		Units	Test Methods	Results
1	Compressive strength	7 Days	MPa		16.2
		28 Days	MPa		23.7
2	Water content		%	KS L 5220 : 2018	78
3	Air content		Vol%		5.4
4	Sand content(remaining in 0.15mm sieve)		%		78
5	Max sand	4.75mm	%		100
		5.6mm	%		100
6	Length Change		%	KS L 1592 : 2011 0.05	0.05
7	Absorptance		%		3.5

※ Mix Proportion 

powder: water = 100: 17.5

X This test report supersedes the Report No. CMT2020-1136

-End-

Technical Manager:

Tel: 031-646-0812

Tester: Moon, SeungKwon

Tel: 031-646-0811

Remarks:

1. The results shown in this report refer only to the sample(s) submitted by applicant. This test report can not

be reproduced or used other than the test purpose stated in above. 2. The authenticity of the test report can be confirmed on the SGS website. (http://e-checking.kr.sgs.com/construction/)

May 20, 2020

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Construction Materials Testing Center

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