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TEST REPORT

REPORT NO : 2019CB1622	PAGE : 1 OF 3
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Applicant : OBAPROOF MANUFACTURING SDN BHD
Lot 4049, Jalan 2D,
Kg. Baru Subang,
40150 Shah Alam,
Selangor.

Manufacturer : OBAPROOF MANUFACTURING SDN BHD

Product : Oba Grout 2215

Reference Standard / Method of Test : 1) BS EN 445: 2007,
Grout for prestressing tendons – Test Methods
Clause 4.6: Compressive Strength test
2) BS EN 196-1: 2016,
Methods of testing cement - Part 1: Determination of strength.
Clause 9.1: Flexural Strength
Clause 9.2: Compressive Strength

Description of sample / Description of Test Specimen : One (1) bag of 15 kg Oba Grout 2215 was received for testing.
Brand: -nil-
Product description: Pumpable Shrinkage Compensated Cementitious Grout.

Date Received of Complete Application : 13 September 2019

Job No. : J20191431231

Description of Test Results / Overall Test Result : The test results of the submitted test sample are described in Page 2 & 3 of this test report.

Issued Date : 13 November 2019

Approved Signatories;

(HANON NAZIR BIN MOHD BASIR)
Senior Testing Executive



(RAJANOR SIHA BINTI RAJA ABDUL HANAN)
Head
Civil & Construction Section
Testing Services Department

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TEST RESULTS:

Product : Oba Grout 2215
 Mix ratio : 19.2 % of water
 Method of test : 1) BS EN 445: 2007,
 Grout for prestressing tendons – Test Methods
 Clause 4.6: Compressive Strength test
 2) BS EN 196-1: 2016,
 Methods of testing cement - Part 1: Determination of strength.
 Clause 9.1: Flexural Strength

NO.	TYPE OF TEST METHOD	TEST RESULTS
1.	Determination of Flexural Strength	<u>1 day</u> 1) 5.2 N/mm ² 2) 5.4 N/mm ² 3) 5.6 N/mm ² Mean: 5.4 N/mm ² <u>7 days</u> 1) 11.0 N/mm ² 2) 10.8 N/mm ² 3) 10.5 N/mm ² Mean: 10.8 N/mm ² <u>28 days</u> 1) 15.9 N/mm ² 2) 16.6 N/mm ² 3) 15.2 N/mm ² Mean: 15.9 N/mm ²

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Product : Oba Grout 2215
 Mix ratio : 19.2 % of water
 Method of test : 1) BS EN 445: 2007,
 Grout for prestressing tendons – Test Methods
 Clause 4.6: Compressive Strength test
 2) BS EN 196-1: 2016,
 Methods of testing cement - Part 1: Determination of strength.
 Clause 9.2: Compressive Strength

NO.	TYPE OF TEST METHOD	TEST RESULTS
1.	Determination of Compressive Strength	<u>1 day</u> 1) 25.8 N/mm ² 2) 26.0 N/mm ² 3) 26.6 N/mm ² 4) 26.0 N/mm ² 5) 26.0 N/mm ² 6) 26.0 N/mm ² Mean: 26.1 N/mm ² <u>7 days</u> 1) 62.3N/mm ² 2) 61.7 N/mm ² 3) 60.5 N/mm ² 4) 61.9 N/mm ² 5) 63.6 N/mm ² 6) 62.9 N/mm ² Mean: 62.2 N/mm ² <u>28 days</u> 1) 82.4 N/mm ² 2) 85.2 N/mm ² 3) 81.1 N/mm ² 4) 79.8 N/mm ² 5) 86.2 N/mm ² 6) 83.3 N/mm ² Mean: 83.0 N/mm ²



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 - b) Obtaining an injunction from Court (cost on a solicitor-client basis to be borne by the Applicant);
 - c) Refusing to accept any further Product for Testing Services from the Applicant or whosoever related to the Applicant, whether subsidiary or otherwise;
 - d) Instructing the Applicant to withdraw and recall the advertisement, statement or document in question and advertise a clarification and apology to SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries twice in a national publication of SIRIM QAS International's choice at the Applicant's sole cost; and
 - e) Informing or lodging a report pertaining the Applicant's Test Report with the relevant authorities.
10. Certified true copies of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee.
11. Corrections to test report shall only be allowed within 6 months from issuance date of the test report and shall be limited to maximum 3 times, after either case whichever occurs earlier, a new test report shall be issued and replace the previous one (having error(s) or lack of information). Issuance of Supplementary Report to the original Test Report shall be for the followings;
 - a) Misprints and typo errors
 - b) Missing technical information
 - c) Test data not reported
 - d) Mistake in reporting of test data