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## TEST REPORT

REPORT NO : 2019CB1131	PAGE : 1 OF 2
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### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

Applicant : VIVO RAISER SDN BHD  
No: 9 & 10, Jalan PKNK 3/7,  
Kawasan Perindustrian Sungai Petani,  
08000 Sungai Petani  
Kedah

Manufacturer : VIVO RAISER SDN BHD

Product : TPS Green

Reference Standard / Method of Test : BS EN 1015-11: 1999,  
Methods of test for mortar for masonry – Part 11: Determination of flexural and compressive strength of hardened mortar

Description of sample / Description of Test Specimen : One (1) bag of 5 kg sample (mixed with TPS Green + Portland-Composite Cement + Fine Sand) was received for testing.  
Brand: TPS  
Product description: Mortar Additives for Bricklaying, Rendering & Plastering.

Date Received of Complete Application : 26 March 2019

Job No. : J20191430585

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

Issued Date : 13 June 2019

Approved Signatories;

(HANON NAZIR BIN MOHD BAKAR)  
Senior Testing Executive



(RAJAH NOR SIHA BINTI RAJA ABDUL HANAN)  
Head  
Civil & Construction Section  
Testing Services Department

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**TEST RESULTS:**

Product : TPS Green  
 Mix ratio : 2 g TPS Green + 1 kg Portland-Composite Cement + 4 kg Fine Sand + 1.25 litre of water  
 Method of test : BS EN 1015-11: 1999,  
 Methods of test for mortar for masonry – Part 11: Determination of flexural and compressive strength of hardened mortar

NO.	TYPE OF TEST METHOD	TEST RESULTS
1.	Determination of Flexural & Compressive Strength (28 days)	<u>Flexural Strength</u> 1) 1.7 N/mm <sup>2</sup> 2) 1.5 N/mm <sup>2</sup> 3) 1.6 N/mm <sup>2</sup> Mean: 1.6 N/mm <sup>2</sup>  <u>Compressive Strength</u> 1) 5.5 N/mm <sup>2</sup> 2) 5.6 N/mm <sup>2</sup> 3) 5.4 N/mm <sup>2</sup> 4) 5.4 N/mm <sup>2</sup> 5) 5.6 N/mm <sup>2</sup> 6) 5.6 N/mm <sup>2</sup> Mean: 5.5 N/mm <sup>2</sup>

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6. If such approval is obtained from the Managing Director of SIRIM QAS International, the Applicant may only include the phrase, "A sample of this product has been tested by SIRIM QAS International ... (Test Report No) ... (dated) .... (for what test) ... (to which standard)" or such similar words which stress that only the Sample was actually tested. This phrase shall only be used for the purpose of product advertisement or product promotion (eg; brochures). For avoidance of doubt, the statement shall not be used on the sample and packaging of the sample.
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  - a) Informing and placing a notice in the media;
  - 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.
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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