



SIRIM QAS International Sdn. Bhd.  
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## TEST REPORT

REPORT NO : 2020CB0776	PAGE : 1 OF 5
This Test Report refers only to samples submitted by the applicant to SIRIM QAS International Sdn. Bhd. and tested by SIRIM QAS International Sdn. Bhd. This Test Report shall not be reproduced, except in full and shall not be used for any purpose by any means or forms (including but not limited to advertising purposes) without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE), SIRIM QAS International Sdn. Bhd. Please refer to the last page of this Test Report for Conditions Relating to the Use of Test Report.	

### THIS TEST REPORT IS ISSUED IN SECURED PDF SOFTCOPY

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

Manufacturer : VIVO RAISER SDN BHD

Product : Tile Adhesive (Thin Bed Adhesive Normal)

Reference Standard / Method of Test : a) MS ISO 13007-1: 2005,  
Ceramic Tiles – Grout and Adhesive – Part 2: Terms, Definitions and Specification for Adhesives (ISO 13007-1: 2004,IDT)  
b) MS ISO 13007-2: 2005,  
Ceramic Tiles – Grout and Adhesive – Part 2: Test Methods for Adhesives (ISO 13007-2: 2005,IDT)

Description of sample : One (1) bag of 10 kg Tile Adhesive (Thin Bed Adhesive Normal) was received for testing.  
Brand: TPS  
Model: Normal cementitious adhesive with slip resistance (C1T)  
Product Description: High quality premium polymer modified cement based adhesive for floor and wall tiling work.

Date Received of Complete Application : 18 September 2020

Job No. : J20201430556

Description of Test Results : The test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn Bhd. The test results for the submitted test samples as described in this test report complied with the requirements of the above reference standard at the respective clauses tested except tensile adhesion strength after heat aging.

Issued Date : 09 December 2020

Approved Signatory;

(HANON NAZIR BIN MOHD BASIR)  
Senior Testing Executive



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

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**TEST RESULTS:**

Product : Tile Adhesive (Thin Bed Adhesive Normal)  
 Mix ratio : 30 % of water  
 Method of test : a) MS ISO 13007-1: 2005  
 Ceramic Tiles – Grout and Adhesive – Part 2: Terms, Definitions and Specification for Adhesives (ISO 13007-1: 2004, IDT)  
 b) MS ISO 13007-2: 2005  
 Ceramic Tiles – Grout and Adhesive – Part 2: Test Methods for Adhesives (ISO 13007-2: 2005, IDT)  
 Clause 4.4: Determination of tensile adhesive strength (for C adhesives)  
 Clause 4.4.4.2: Tensile adhesive strength  
 Clause 4.4.4.3: Tensile adhesive strength after water immersion

CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
5.2	Specification for cementitious adhesives (C)  <b>Normal Cementitious adhesive with slip resistance (C1T)</b>  Fundamental Characteristic:- a) Tensile adhesion strength: $\geq 0.5 \text{ N/mm}^2$	1) 1.60 N/mm <sup>2</sup> 2) 1.49 N/mm <sup>2</sup> 3) 1.58 N/mm <sup>2</sup> 4) 1.53 N/mm <sup>2</sup> 5) 1.57 N/mm <sup>2</sup> Mean: 1.55 N/mm <sup>2</sup>	Pass
	b) Tensile adhesion strength after water immersion: $\geq 0.5 \text{ N/mm}^2$	1) 1.08 N/mm <sup>2</sup> 2) 1.18 N/mm <sup>2</sup> 3) 1.15 N/mm <sup>2</sup> 4) 1.02 N/mm <sup>2</sup> 5) 1.02 N/mm <sup>2</sup> Mean: 1.09 N/mm <sup>2</sup>	Pass

Note:

1) Testing period – 12<sup>th</sup> October 2020 to 30<sup>th</sup> November 2020.

2) Simple acceptance rule is used for the conformity statement. The level of risk regarding the probability of false accept is up to 50%.



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**TEST RESULTS:**

Product : Tile Adhesive (Thin Bed Adhesive Normal)  
 Mix ratio : 30 % of water  
 Method of test : a) MS ISO 13007-1: 2005  
 Ceramic Tiles – Grout and Adhesive – Part 2: Terms, Definitions and Specification for Adhesives (ISO 13007-1: 2004, IDT)  
 b) MS ISO 13007-2: 2005  
 Ceramic Tiles – Grout and Adhesive – Part 2: Test Methods for Adhesives (ISO 13007-2: 2005, IDT)  
 Clause 4.1: Determination of open time  
 Clause 4.4: Determination of tensile adhesive strength (for C adhesives)  
 Clause 4.4.4.3: Tensile adhesive strength after heat aging

CLAUSE	REQUIREMENTS	TEST RESULT	REMARK
5.2	Specification for cementitious adhesives (C)  <b>Normal Cementitious adhesive with slip resistance (C1T)</b>  Fundamental Characteristic:- c) Tensile adhesion strength after heat aging: $\geq 0.5 \text{ N/mm}^2$	1) $0.51 \text{ N/mm}^2$ 2) $0.54 \text{ N/mm}^2$ 3) $0.56 \text{ N/mm}^2$ 4) $0.55 \text{ N/mm}^2$ 5) $0.52 \text{ N/mm}^2$ Mean: $0.54 \text{ N/mm}^2$	Pass
	d) Open time: tensile adhesion strength: $\geq 0.5 \text{ N/mm}^2$ after no less than 20 min	1) $0.71 \text{ N/mm}^2$ 2) $0.64 \text{ N/mm}^2$ 3) $0.76 \text{ N/mm}^2$ 4) $0.77 \text{ N/mm}^2$ 5) $0.67 \text{ N/mm}^2$ Mean: $0.71 \text{ N/mm}^2$	Pass

Note:

1) Testing period – 12<sup>th</sup> October 2020 to 30<sup>th</sup> November 2020.

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 b) MS ISO 13007-2: 2005  
 Ceramic Tiles – Grout and Adhesive – Part 2: Test Methods for Adhesives (ISO 13007-2: 2005,IDT)  
 Clause 4.2: Determination of slip

CLAUSE	REQUIREMENT	TEST RESULTS	REMARK
5.2	Specification for cementitious adhesives (C)  <b>Normal Cementitious adhesive with slip resistance (C1T)</b>  Special Characteristic:- e) Slip : $\leq 0.5$ mm	1) 0.12 mm 2) 0.15 mm Mean : 0.14 mm	Pass

## Note:

- 1) Testing period – 12<sup>th</sup> October 2020 to 30<sup>th</sup> November 2020.
- 2) Simple acceptance rule is used for the conformity statement. The level of risk regarding the probability of false accept is up to 50%.

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#### CONDITIONS RELATING TO THE USE OF SIRIM QAS INTERNATIONAL TEST REPORT

1. A Test Report will be issued in respect of Testing Services conducted and shall relate only to the sample actually tested. SIRIM QAS International makes no warranty whatsoever and the Applicant shall not represent in any manner that any duplication or mass production of the Product is same as the sample actually tested or that SIRIM QAS International has tested any of the duplicated or mass-produced Product. Measurement uncertainty shall be included in the Test Report when there is no statement of conformity required. When a statement of conformity to a specification or standard is applied, the Simple Acceptance Rule is used. Unless otherwise stated, the Acceptance Rule with Guard Band is used.
2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.
3. If the Test Report is to be furnished to any third party or to the public, each such Test Report shall be furnished in full, legible and in its entirety.
4. The Test Report shall not be reproduced and shall not in any event be used for any advertising purposes or whatsoever without written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International of No 1, Persiaran Dato' Menteri, Building 8, Section 2, P.O. Box 7035, 40700 Shah Alam, Selangor Darul Ehsan.
5. Customer (Applicant/Manufacture/Factory, etc.) is not permitted to use any SIRIM QAS International, SIRIM or other SIRIM's subsidiaries logo or words on packaging, sample's manual, technical specification, items and products.
6. Subject to consent and written approval from the Head of Quality, Occupational Safety and Health & Environment (QOSHE) of SIRIM QAS International, the customer (Applicant/Manufacture/Factory, etc.) may use SIRIM QAS International logo or word on the promotional materials and the Applicant shall 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/flyers/official website). For avoidance of doubt, the statement shall not be used on the sample, packaging of the sample, items and products.
7. In the event there is an investigation from a Government Regulatory Agency concerning the Applicant's Test Report, SIRIM QAS International may disclose the information pertaining to the Test Report for purposes of such investigation.
8. Further or in the alternative, it is strictly forbidden unless with prior written approval from the Chief Executive Officer of SIRIM QAS International, to represent in any manner whatsoever that SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries has endorsed, approved or validated the Product of the Applicant in any manner whatsoever.
9. In the event the Applicant is found in breach of this provision, SIRIM QAS International, SIRIM and/or other SIRIM's subsidiaries without prejudice to any other rights and remedies may take whatever action necessary including but not limited to:
  - 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.
10. SIRIM QAS International is committed in supporting an environmentally-friendly business practices by reducing paper consumption, therefore we do not issue any hard copy of Test Report to the Applicant. However, additional certified true copy(ies) or softcopy of the Test Report may be issued upon request by the Applicant upon payment of the relevant fee. The certified true copy(ies) or softcopy of test report shall only be given for test report issued not more than three (3) years from the date of issuance.
11. Issuance of Amendment Report due to the following reasons are chargeable to the Applicant :
  - a) Changes in details of the Applicant name and/or address;
  - b) Changes in details of the Manufacturer's name and/or address;
  - c) Changes in details of the Factory location name and/or address;
  - d) Changes in details of the model and/or type designation
12. However, issuance of Supplementary Report due to the following reasons are FOC :
  - a) Misprints and typo errors;
  - b) Missing technical information as agreed in PP1 form;
  - c) Test data not reported;
  - d) Mistake in reporting of test data
13. Corrections to report shall only be allowed if the date of issuance of the original report has not exceeded 6 months and shall be limited to a maximum 3 times, after either case whichever occurs earlier, an Amendment or a Supplementary Report shall not be issued.