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TEST REPORT

REPORT NO : 2022CB0107	PAGE : 1 OF 6
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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 Perusahaan Sungai Petani,
08000 Sungai Petani,
Kedah.

Manufacturer : VIVO RAISER SDN BHD

Product : TPS Waterproof Premium

Reference Standard / Method of Test : 1) ASTM D412-16, Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers – Tension
2) BS EN 1542: 1999, Products and systems for the protection and repair of concrete structure-Test Methods-Measurement of bond strength by pull off
3) BS EN ISO 7783: 2018, Paints and varnishes. Determination of water-vapour transmission properties. Cup method
4) BS EN 1062-3:2008, Paint and varnishes – Coating materials and coating system for exterior masonry and concrete – Part 3: Determination of liquid water permeability.

Description of sample : The following items were received for testing.
a) Ten (10) sheets (21 cm x 29.6 cm) of TPS Waterproof Premium
b) One (1) pail of 5 litre Waterproof Premium (Part A) & one (1) bag of 20 kg Waterproof Premium (Part B)
Brand: TPS, Product Description: cementitious waterproofing

Date Received of Complete Application : 14 October 2021

Job No. : J20211430450

Description of Test Results : The test results of the submitted test sample are described in Page 2, 3, 4, & 5 of this test report.

Issued Date : 11 February 2022

Approved Signatory;

(HANON NAZIR BIN MOHD BASRI)
Senior Testing Executive



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

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TEST RESULTS:

Product : TPS Waterproof Premium
 Average thickness : 3.51 mm
 Method of Test : ASTM D412-16,
 Standard Test Methods for Vulcanized Rubber and Thermoplastic
 Elastomers – Tension

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Determination of Tensile Strength Type Method A: Dumbbell (Die C)	1) 0.7 N/mm ² 2) 0.7 N/mm ² 3) 0.8 N/mm ² 4) 0.8 N/mm ² 5) 0.6 N/mm ² Mean: 0.7 N/mm ²
2.	Determination of Elongation at Break Type Method A: Dumbbell (Die C)	1) 43.3 % 2) 49.4 % 3) 44.8 % 4) 50.9 % 5) 52.7 % Mean: 48.2 %

Note:

- 1) Testing period – 23rd November 2021 to 7th February 2022.
- 2) Test conducted by Chemical & Consumers Section, SIRIM QAS International Sdn Bhd

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TEST RESULTS:

Product : TPS Waterproof Premium
 Method of test : ASTM D7234-12,
 Standard Test Method for Pull-Off Adhesion Strength of Coatings on
 Concrete Using Portable Pull-Off Adhesion Testers

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Measurement of bond strength by Pull-Off using Portable Adhesion Tester between concrete substrate and TPS Waterproof Premium	1) 1.54 N/mm ² 2) 2.00 N/mm ² 3) 1.71 N/mm ² 4) 2.34 N/mm ² 5) 1.84 N/mm ² Mean: (1.89 ± 0.025*) N/mm ² <u>Mode of failure (Fracture pattern)</u> Cohesion failure in the Waterproof Premium layer

Note:

- 1) Where the reported uncertainty is calculated using a coverage factor $k=2$, which gives a level of confidence of approximately 95%.
- 2) *Denotes measurement uncertainty
- 3) Testing period – 5th January 2022 to 8th February 2022.

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TEST RESULTS:

Product : TPS Waterproof Premium
Method of test : BS EN ISO 7783: 2018,
Paints and varnishes. Determination of water-vapour transmission properties. Cup method

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Water Vapor Transmission Rate, g/m ² .day (Method B) – Dry-cup method - Desiccant <u>Test Condition:</u> Temperature: (23 ± 2) °C Relative Humidity: 50 ± 5% RH Average thickness: 2.85 mm	28.5 g/m ² .day

Note:

- 1) Testing period – 23rd November 2021 to 7th February 2022.
- 2) Test conducted by Chemical & Consumers Section, SIRIM QAS International Sdn Bhd

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TEST RESULT:

Product : TPS Waterproof Premium
 Method of test : BS EN 1062-3: 2008,
 Paint and varnishes – Coating materials and
 coating system for exterior masonry and concrete – Part 3: Determination of
 liquid water permeability.

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Water transmissibility after 24 hours, kg/m ² .h ^{0.5}	1) 0.01 kg/m ² .h ^{0.5} 2) 0.01 kg/m ² .h ^{0.5} 3) 0.01 kg/m ² .h ^{0.5} Mean:(0.01 ± 0.0019*) kg/m ² .h ^{0.5}

Note:

- 1) Where the reported uncertainty is calculated using a coverage factor $k=2$, which gives a level of confidence of approximately 95%.
- 2) *Denotes measurement uncertainty
- 3) Testing period – 5th January 2022 to 8th February 2022.

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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.