

## TEST REPORT

REPORT NO : 2017CB0167	PAGE : 1 OF 3
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**Applicant** : VIVO RAISER SDN BHD  
No: 9 & 10, Jalan PKNK 3/7,  
Kawasan Perusahaan Sungai Petani,  
08000 Sungai Petani  
Kedah Darul Aman

**Manufacturer** : T & G MARKETING ENTERPRISE  
No: 23 & 25, Laluan Industri Lahat 1,  
Kawasan Perusahaan RIMA,  
31500 Ipoh  
Perak Darul Ridzuan

**Product** : Waterproof (P) & Bonding Agent (P)

**Reference Standard/  
Method of test** : 1) BS EN 1542: 1999  
Products and systems for the protection and repair of concrete structures  
– Test methods – Measurement of bond strength by pull-off  
2) BS EN 13294: 2002  
Products and systems for the protection and repair of concrete structures  
– Test methods – Determination of stiffening time  
3) BS EN 1015-3: 1999  
Methods of test for mortar for masonry – Part 3: Determination of  
consistence of fresh mortar (by flow table)

**Description of sample** : One (1) bottle of 5 litre Waterproof (P) & Bonding Agent (P) and one (1)  
bag of 20 kg cement were received for testing.  
Model: TPS Waterproof (Premium) & TPS Bonding Agent (Premium)  
Brand : TPS

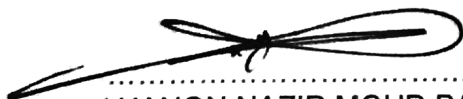
**Date Received of  
Complete Application** : 6<sup>th</sup> October 2016

**Job no./Ref. no.** : J20161431326/SQAS/CCST/T.REC/CSL/01

**Description of test  
results** : The test results of the submitted test samples are described in Page 2 & 3  
of this test report.

**Issued date** : 08 FEB 2017

Approved Signatory



(HANON NAZIR MOHD BASIR)  
Senior Testing Executive




(Y.M. RAJA NOR SIHA RAJA ABD. HANAN)  
Head  
Civil & Construction Section  
Testing Services Department

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**TEST RESULTS:**

Product : Waterproof (P) & Bonding Agent (P)  
Model : Waterproof (Premium) & TPS Bonding Agent (Premium)  
Mix proportion : 20 kg cement: 5 litre Waterproof (P) & Bonding Agent (P)  
Method of Test : BS EN 1542: 1999,  
Products and systems for the protection and repair of concrete structures –  
Test methods – Measurement of bond strength by pull-off

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Determination of bond strength by pull-off	<u>Adhesion Strength</u>  1) 0.62 N/mm <sup>2</sup> 2) 0.59 N/mm <sup>2</sup> 3) 0.58 N/mm <sup>2</sup> 4) 0.64 N/mm <sup>2</sup> 5) 0.62 N/mm <sup>2</sup> <b>Mean: 0.61 N/mm<sup>2</sup></b>

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08 FEB 2017



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**TEST RESULTS:**

Product : Waterproof (P) & Bonding Agent (P)  
Model : Waterproof (Premium) & TPS Bonding Agent (Premium)  
Mix proportion : 20 kg cement: 5 litre Waterproof (P) & Bonding Agent (P)  
Method of Test : 1) BS EN 13294: 2002  
Products and systems for the protection and repair of concrete structures –  
Test methods – Determination of stiffening time  
2) BS EN 1015-3: 1999,  
Methods of test for mortar for masonry – Part 3: Determination of  
consistence of fresh mortar (by flow table)

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Determination of stiffening time	<u>Stiffening Time</u> More than 8 hours to stiff
2.	Determination of consistence of fresh mortar (by flow table)	<u>Flow value</u> 1) 27.4 % 2) 27.8 % Mean: 27.6 %

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08 FEB 2017

