

TEST REPORT

REPORT NO : 2016CB1261

PAGE : 1 OF 6

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Applicant. : VIVO RAISER SDN. BHD.
9 & 10, Jalan PKNK 3/7,
Kawasan Perusahaan Sungai Petani,
08000 Sungai Petani,
Kedah Darul Aman.

Manufacturer : VIVO RAISER SDN. BHD.

Product : Plastering Mortar

Reference Standard/ : BS EN 998-1 : 2010
Method of test : Specification – Part 1: Rendering and plastering mortar
Clause 5.2: Properties of hardened mortars
L1 : Dry bulk density
L2 : Compressive strength
L3 : Adhesion
L4 : Capillary water absorption
Clause 5.3 : Properties of fresh mortars
Clause 5.3.1 : Workable life
Clause 5.3.2 : Air content

Description of sample : One (1) of bag of 15 kg of Plastering Mortar was received for testing.
Brand: TPS
Model: TPS Patching Grey & White

Date Received of : 09th May 2016
Complete Application

Job No./Ref. No. : J20161430482/SQAS/CCST/T.REC/CSL/13

Description of test : The test report covers only test clauses as requested by Applicant to
results : 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.

Issued date

18 JUL 2016

Approved Signatory

(MOHD HAFIZ MOHD NASIR)
Testing Executive



(RAJA NOR SIHA RAJA ABD. HANAN)
Head

Civil & Construction Section
Testing Services Department

TEST RESULTS:

Product
Brand
Model
Mix Proportion
Method of Test

: Plastering Mortar
 : TPS
 : TPS Patching Grey & White
 : 15 kg TPS Patching Grey & White : 4.2 Liter of Clean water
 : 1) BS EN 998-1 : 2010
 Mortar for masonry – Specification – Part 1: Rendering and plastering mortar
 2) BS EN 1015-10: 1999,
 Methods of test for mortar for masonry – Part 10: Determination of dry bulk density of hardened mortar

CLAUSE	TEST METHOD/REQUIREMENT	TEST RESULTS	REMARK
5.2 5.2.1	Properties of hardened mortar General The properties relevant to the intended use and/or type of product shall be declared according table 2. GP: General purpose rendering/plastering mortar L1: Dry Bulk Density	<div>FOR REFERENCE ONLY</div> <div> Dry Bulk density 1) 1360 kg/m³ 2) 1350 kg/m³ 3) 1380 kg/m³ Mean: 1360 kg/m³ </div>	Declared range of values by manufacturer

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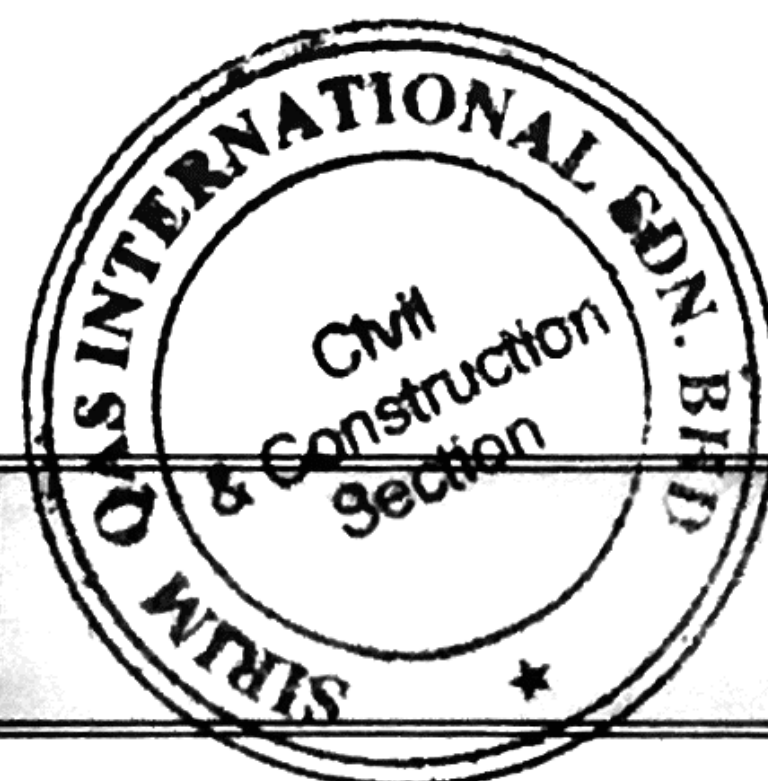
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TEST RESULTS:

Product : Plastering Mortar
 Brand : TPS
 Model : TPS Patching Grey & White
 Mix Proportion : 15 kg TPS Patching Grey & White : 4.2 Liter of Clean water
 Method of Test : 1) BS EN 998-1 : 2010
 Mortar for masonry – Specification – Part 1: Rendering and plastering mortar
 2) BS EN 1015-11: 1999,
 Methods of test for mortar for masonry – Part 11: Determination of flexural and compressive strength of hardened mortar

CLAUSE	TEST METHOD/REQUIREMENT	TEST RESULTS	REMARK
5.2 5.2.1	<p>Properties of hardened mortar General The properties relevant to the intended use and/or type of product shall be declared according table 2.</p> <p>Classification for hardened mortar properties.</p> <p>GP: General purpose rendering/plastering mortar</p> <p>L2: Compressive strength Range of Compressive strength at 28 days - Categories CS IV : $\geq 6.0 \text{ N/mm}^2$</p>	<p><u>Flexural Strength</u></p> <p>1) 5.0 N/mm^2 2) 4.1 N/mm^2 3) 4.4 N/mm^2 Mean: 4.5 N/mm^2</p> <p><u>Compressive Strength</u></p> <p>1) 16.3 N/mm^2 2) 16.7 N/mm^2 3) 15.0 N/mm^2 4) 15.7 N/mm^2 5) 14.1 N/mm^2 6) 15.3 N/mm^2 Mean: 15.5 N/mm^2</p>	<p>Declared by manufacturer</p> <p>Pass</p>

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TEST RESULTS:

Product : Plastering Mortar
 Brand : TPS
 Model : TPS Patching Grey & White
 Mix Proportion : 15 kg TPS Patching Grey & White : 4.2 Liter of Clean water
 Method of Test : 1) BS EN 998-1 : 2010
 Mortar for masonry – Specification – Part 1: Rendering and plastering mortar
 2) BS EN 1015-12: 2000,
 Methods of test for mortar for masonry – Part 12: Determination of adhesive strength of hardened rendering and plastering mortars on substrates

CLAUSE	TEST METHOD/REQUIREMENT	TEST RESULTS	REMARK
5.2 5.2.1	Properties of hardened mortar General The properties relevant to the intended use and/or type of product shall be declared according table 2. . GP: General purpose rendering/plastering mortar L3: Adhesion	<p><u>Adhesion Strength</u></p> 1) 0.38 N/mm ² 2) 0.43 N/mm ² 3) 0.48 N/mm ² 4) 0.59 N/mm ² 5) 0.47 N/mm ² Mean: 0.47 N/mm² <p><u>Fracture pattern</u> Fracture pattern a: Adhesion fracture – Fracture at the interface between mortar and adhesive</p>	≥ Declared value and fracture pattern (FP) by manufacturer

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TEST RESULTS:

Product : Plastering Mortar
Brand : TPS
Model : TPS Patching Grey & White
Mix Proportion : 15 kg TPS Patching Grey & White : 4.2 Liter of Clean water
Method of Test : 1) BS EN 998-1 : 2010
Mortar for masonry – Specification – Part 1: Rendering and plastering mortar
2) BS EN 1015-18: 2002,
Methods of test for mortar for masonry – Part 18: Determination of water absorption coefficient due to capillary action of hardened mortar

CLAUSE	TEST METHOD/REQUIREMENT	TEST RESULTS	REMARK
5.2 5.2.1	Properties of hardened mortar General The properties relevant to the intended use and/or type of product shall be declared according table 2. GP: General purpose rendering/plastering mortar L5: Capillary water absorption - Categories W 0 : Not Specified Coefficient of capillary water absorption	1) $0.5 \text{ kg/m}^2 \cdot \text{min}^{0.5}$ 2) $0.5 \text{ kg/m}^2 \cdot \text{min}^{0.5}$ 3) $0.6 \text{ kg/m}^2 \cdot \text{min}^{0.5}$ 4) $0.6 \text{ kg/m}^2 \cdot \text{min}^{0.5}$ 5) $0.5 \text{ kg/m}^2 \cdot \text{min}^{0.5}$ 6) $0.5 \text{ kg/m}^2 \cdot \text{min}^{0.5}$ Mean: $0.5 \text{ kg/m}^2 \cdot \text{min}^{0.5}$	Pass

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TEST RESULTS:

Product : Plastering Mortar
 Brand : TPS
 Model : TPS Patching Grey & White
 Mix Proportion : 15 kg TPS Patching Grey & White : 4.2 Liter of Clean water
 Method of Test : 1) BS EN 998-1 : 2010
 Mortar for masonry – Specification – Part 1: Rendering and plastering mortar
 2) BS EN 1015-7: 1999,
 Methods of test for mortar for masonry – Part 7: Determination of air content of fresh mortar
 3) BS EN 1015-9: 1999,
 Methods of test for mortar for masonry – Part 9: Determination of workable life and correction time of fresh mortar

CLAUSE	TEST METHOD/REQUIREMENT	TEST RESULTS	REMARK
5.3 5.3.1	Properties of fresh mortar Workable Life The workable life shall be declared by the manufacturer - Method A: Workable Life of General Purpose mortar	<u>Workable life</u> Resistance at 0.5 N/mm ² : 513 min Resistance at 1.0 N/mm ² : 525 min Resistance at 1.5 N/mm ² : 548 min Resistance at 2.0 N/mm ² : 622 min	Declared by manufacturer
5.3.2	Air Content The air content shall fall as declared by the manufacturer - Method A: Pressure Methods	<u>Air Content</u> 1) 10.0 % 2) 12.0 % Mean: 11.0 %	Declared by manufacturer

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