TPS RENDER GREY 553 ECO SERIES

HIGH QUALITY WATER RESISTANT RENDER FOR INTERNAL & EXTERNAL WALL
ALSO USED TO PATCH UP CONCRETE SURFACE



TECHNICAL DATA

Packing	40Kg
Colour	Grey
Mixing Ratio	20Kg Render + 4kg Clean Water
Coverage (Approx)	2.5m^2 at 12mm thickness
Grade	GreenLabel SINGAPORE, MALAYSIA Myhijau, MS SIRIM
Item Code	E04
Max Thickness	20mm per coat

APPLICATION



Apply first coat to patch up undulating surface.
Apply second coat to level the surface.



As conventional plastering, TPS Render Grey always finished with sponge finish.

HOW TO USE
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TECHNICAL DATA

VALUED CUSTOMER

TECHNICAL DATA SHEET

TPS RENDER GREY 553

PRODUCT DESCRIPTION

TPS Render Grey 553 is a high quality cement-based and water resistant render plaster which can be used in interior and exterior conditions.

USES

Application on concrete substrate, hollow block & bricks, precast unit & most of the cement substrates.

ADVANTAGES

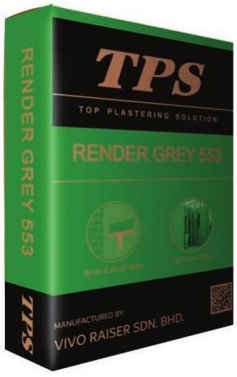
- ✓ Good crack bridging capability
- ✓ Mixes and applies easily
- ✓ Very good adhesion to substrates
- ✓ High compressive strength
- ✓ Non-toxic, same as cement
- ✓ Improve bond strength
- ✓ Improve productivity
- ✓ High quality sponge surface

PRODUCT DATA

Form	:	Powder
Appearance / Colours	:	White
Packaging	:	40 kg
Storage Conditions / Shelf Life	:	6 months from the date of production if stored properly in original, unopened and undamaged sealed packaging, in cool, dry conditions. Keep away from direct sunlight.

HEALTH AND SAFETY INFORMATION

For information and advice on the safe handling, storage, and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet (available upon request) containing physical, ecological toxicological and other safety-related data



SYSTEM INFORMATION

Application Details Mixing ratio	:	20kg TPS Render Grey 553 + 4kg Clean Water
Coverage (According to mixing ratio above)	:	40kg for 3m² per coat at 20mm thickness
Substrate Preparation	:	Concrete or plaster surfaces must be clean, free from grease, oil and loosely adhering particles.

APPLICATION INSTRUCTIONS

Application Method / Tools	:	Refer Method Statement.
Cleaning of Tools	:	Clean all tools and application equipment with water immediately after use.
Pot Life (maximum)	:	240 minutes (at room temperature). Pot life is shorter at higher temperatures.
Notes on Application / Limitations	:	Do not use on painted surface.

LEGAL NOTES

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitableness and completeness of such information for his own particular use. Neither Shijiru Sdn Bhd nor any of its parent's companies assumes any liability what so ever for the accuracy or completeness of the information contained herein.

VIVO RAISER SDN. BHD. (920807-P)
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华语

ISO 9001:2015

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(Company No.: 199601037981 (410334-X))
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40700 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: 03-55445872
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www.sirim-qas.com.my

TEST REPORT

REPORT NO : 2020CB0773	PAGE : 1 OF 5

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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	: Rendering Mortar (Render Grey)
Reference Standard / Method of Test	: 1) ASTM C348-14, Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars 2) ASTM C349-08, Standard Test Method for Compressive Strength of Hydraulic Cement Mortars (Using Portions of Prism Broken in Flexure) 3) ASTM D7234-12, Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Pull-Off Adhesion Testers
Description of sample	: One (1) bag of 10 kg Rendering Mortar (Render Grey) was received for testing. Brand: TPS Model: Render Grey Product Description: High quality cement- based and water resistant pre-packed plaster
Date Received of Complete Application	: 18 September 2020
Job No.	: J20201430553
Description of Test Results	: The test results of the submitted test sample are described in Page 2, 3, & 4 of this test report.
Issued Date	: 10 December 2020

Approved Signatory;

.....
(HANON NAZIR BIN MOHD BASIR)
Senior Testing Executive

SIRIM QAS International Sdn. Bhd. CIVIL & CONSTRUCTION SECTION

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

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TEST RESULTS:

Product : Rendering Mortar (Render Grey)
Mix ratio : 30 % of water
Method of test : ASTM C348-14,
Standard Test Method for Flexural Strength of Hydraulic-Cement Mortars.

NO.	TYPE OF TEST METHODS	TEST RESULT
1.	Determination of Flexural Strength	28 days 1) 2.9 N/mm^2 2) 3.0 N/mm^2 3) 3.1 N/mm^2 Mean: (3.0 ± 0.08*) N/mm^2

Note:
1) Testing period – 12th October 2020 to 27th November 2020.
2) *Where the reported uncertainty is calculated using a coverage factor k=2, which gives a level of confidence of approximately 95%.*
3) **Denotes measurement uncertainty*

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TEST RESULTS:

Product : Rendering Mortar (Render Grey)
Mix ratio 30 % of water
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 Rendering Mortar (Render Grey)	Pull-off Adhesion Strength 1) 0.94 N/mm^2 2) 0.90 N/mm^2 3) 0.96 N/mm^2 4) 0.89 N/mm^2 5) 0.84 N/mm^2 Mean: (0.91 ± 0.03*) N/mm^2 Mode of failure (Fracture pattern) Cohesion failure in the Rendering Mortar (Render Grey)

Note:
1) Testing period – 12th October 2020 to 27th November 2020.
2) *Where the reported uncertainty is calculated using a coverage factor k=2, which gives a level of confidence of approximately 95%.*
3) **Denotes measurement uncertainty*

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2. The Test Report shall not be misused, amended, changed, varied or modified in any manner whatsoever by the Applicant or otherwise.

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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.

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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.

FOR REFERENCE ONLY

The Singapore Environment Council hereby grant

Vivo Raiser Sdn Bhd

No 9 & 10, Jalan PKNK 3/7, Kawasan Perusahaan Sungai Petani
Sungai Petani 08000, Kedah, Malaysia

the right to use the Singapore Green Label for

TPS RENDER SERIES

022-145-3322

Environmentally Preferred Cement / Concrete Product

(In accordance to SEC Green Label Category 22: Cement and Concrete Products)

Validity: 5 June 2025 to 26 November 2026

Cheang Kok Chung
Executive Director

Singapore Environment Council

MEMBER OF MULTILATERAL RECOGNITION ARRANGEMENT IAF

SAC Accredited Certification Body
PD-2018-20

1 Kay Siang Road #07-01
Singapore 248922

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RegNo: 201001036884 I TIN: C21294886050 I MSIC Code: 23959 I SST No: A10-2508-22200004
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04-4102148 sales@shijiru.com

METHOD STATEMENT
TPS RENDER GREY 553 40KG

1. INTRODUCTION

TPS Render Grey 40kg is a pre-mixed, cement-based rendering material designed for high-quality wall finishing prior painting. It delivers a level, durable, and weather-resistant surface suitable for concrete, masonry, and brick substrates.

Key Benefits:

- **Consistent factory-controlled quality**
- **Excellent adhesion and workability**
- **Durable, crack-resistant finish**
- **Multi-layer application possible (Max ~ ½ inches per coat at a time; up to 4 coat)**
- **Suitable for interior and exterior use**

2. SUBSTRATE PREPARATION & INSPECTION

1. Ensure all substrates (brick wall, block wall, or concrete) are clean, sound, and free of dust, grease, oil, formwork oil, paint, or loose material.
2. Repair cracks or holes using appropriate filler and all mechanical and electrical (M&E) chasing must be patched and cured prior to rendering.
3. For absorbent or porous substrates (such as AAC blocks or dry red bricks), lightly dampen the surface with clean water before application to prevent rapid moisture loss or apply a bonding agent.
4. Mask surrounding areas to prevent splashes.
5. For smooth concrete surfaces (shear walls/columns), apply a "spatter dash" key coat or a bonding agent primer if required by the project specification.






3. MATERIAL PREPARATION

• One (1) bag of TPS RENDER GREY 553= 40 kg.

Water required: 9.6 liters (24% by weight of cement)

***Mixing water must be potable, free from salts and organic impurities.*

• Coverage: 40kg for 3m² per coat at 10mm thickness

4. MIXING PROCEDURE

a) Pour the measured clean water into a suitable mixing container.

b) Gradually add the powder while mixing continuously with a slow-speed drill mixer (400–600 rpm).

c) Mix for 3–5 minutes until a smooth, homogenous, lump-free paste is achieved.

d) Allow the mixture to stand (slake) for 3–5 minutes. Re-mix before application.

e) Do not add extra water after mixing.

***Pot life: Up to 45minutes after mixing.*





5. APPLICATION

1. Apply render using a trowel in **10–12mm per coat**.

2. For thicker finishes, apply multiple layers, allowing each coat to firm up before next application.
3. Immediately after application, use an aluminium straight edge to rule off and level the surface vertically and horizontally and fill in any hollows or depressions with fresh material and re-level.
4. Apply texture or finish with sponge or float as required (during touch-dry).
5. Protect fresh render from direct sun, strong wind, or rain.

   **Avoid over-troweling, as this may cause surface cracking or powdering.

   **Avoid over-sponging, which can bring excess water to the surface and cause crazing.

6. TECHNICAL SPECIFICATION

Parameter	**Typical Value / Range**
Layer Thickness	10–12 mm per coat
Coverage	~3 m² per 40kg per 10mm thickness
Compressive Strength (28 days)	≥ 8 MPa
Adhesion to Substrate	≥ 0.5 MPa
Water Absorption	< 5%
Pot Life	30–45 minutes
Open Time	10–15 minutes
Initial Set	1–2 hours
Final Set	4–6 hours
Storage Life	6 months (dry, cool storage)

6. **Curing Process**

1. Protect freshly rendered walls from vibration, impact, and direct rain during the initial setting.
2. **Air Curing:** Natural air curing is sufficient under normal site conditions. Do not use curing compounds.
3. Allow the render to cure for a minimum of **3-7 days** (depending on thickness and weather) before applying Skim Coat or Paint.

7. SAFETY COMPLIANCE

1. Wear gloves, goggles, and dust mask. Avoid inhalation of dust and contact with skin.
2. First aid: In case of contact with skin or eyes, rinse immediately with clean water and seek medical advice if irritation persists.
3. Dispose of waste and wash water responsibly; do not discharge into drains or waterways.





8. DISCLAIMER

The information provided herein is based on our best knowledge and is intended as a general guide for the proper use of TPS Render Grey 553. Conditions of use are beyond the manufacturer's control, and no warranty is expressed or implied. It is the responsibility of the applicator/contractor to determine the suitability of the product for the intended application.

Last Revision: [23/1/2026]

Certificate of Registration

This is to certify that the Environmental Management System of

VIVO RAISER SDN. BHD.

9 & 10, Jln Pknk 3/7, Kawasan Perindustrian Sungai Petani, 08000 Sungai Petani, Kedah, Malaysia.

is in accordance with the requirements of the following standard

ISO 14001:2015

(Environmental Management System)

SCOPE

Manufacture for Plaster Additive, Skim Coat, Tile-Adhesive and Cementitious Waterproofing

(IAF Code: 12)

Certificate Number : 180325026036

Initial Registration Date :	18-Mar-2025
1st Surveillance Date :	18-Feb-2026
Next Due Date :	17-Mar-2026
Certificate Expiry Date :	17-Mar-2028

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CB-MS-3926

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ISO 45001:2018

(Occupational Health and Safety Management System)

SCOPE

Manufacture for Plaster Additive, Skim Coat, Tile-Adhesive and Cementitious Waterproofing

(IAF Code: 12)

Certificate Number : 270225036005

Initial Registration Date : 27-Feb-2025
1st Surveillance Date : 27-Jan-2026
Next Due Date : 26-Feb-2026
Certificate Expiry Date : 26-Feb-2028

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Certificate of Registration

This is to certify that the Quality Management System of

VIVO RAISER SDN. BHD.

SHIJIRU SDN. BHD.

HQ: No. 9 & 10, Jalan PKNK 3/7, Kawasan Perusahaan Sungai Petani, 08000 Sungai Petani, Kedah Darul Aman, Malaysia.
Branch: No 27 & 29, Laluan Industri Lahat 1, Kawasan Perindustrian Lahat, 31450 Ipoh, Perak, Malaysia.

is in accordance with the requirements of the following standard

ISO 9001:2015

(Quality Management System)

SCOPE

Supply of Materials and Labour for Plastering, Skim Coating and Plasterboard Ceiling and Manufacture for Plaster Additive, Skim Coat, Render, Tile-Adhesive and Cementitious Waterproofing Chemical

(IAF Code: 29,35,12)

Certificate Number : 111125016018

Initial Registration Date : 11-Nov-2025
1st Surveillance Date : 10-Oct-2026
Next Due Date : 10-Nov-2026
Certificate Expiry Date : 10-Nov-2028

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