

TPS PATCHING GREY 556 ECO SERIES

THIN RENDER FOR HOLLOW BLOCK, PLASTERED & IBS WALL



TECHNICAL DATA

Packing	40Kg
Colour	Light Grey
Mixing Ratio	20Kg Patching + 5kg Clean Water
Coverage Per Bag (Approx)	40Kg for 12m ² per coat at 2mm
Grade	  
Item Code	E01

APPLICATION

REPAIR PLASTER UNEVENNESS



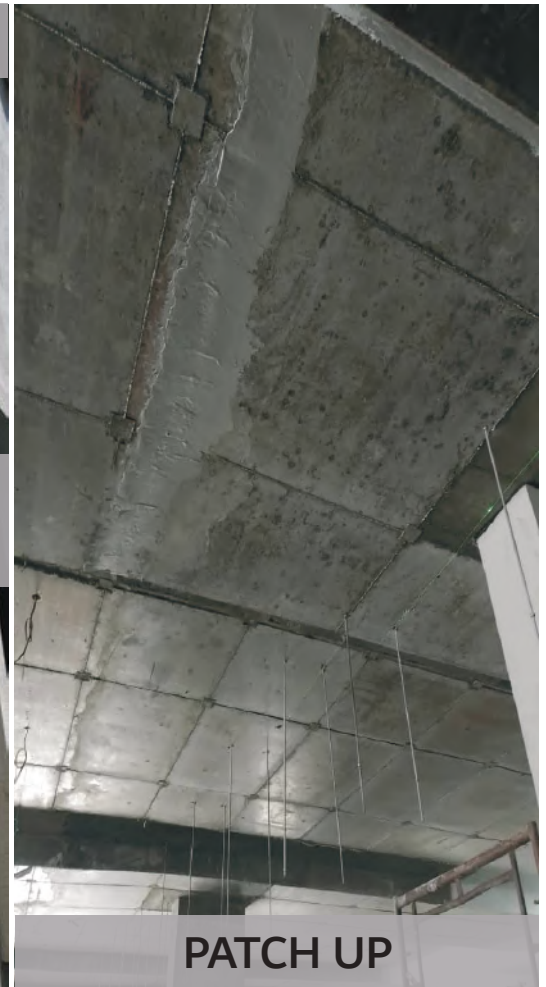
BEFORE



AFTER
EXTERNAL THIN RENDER



PATCH UP



VALUED CUSTOMER



HOW TO USE

华语



EN



TECHNICAL DATA



WARNING ⚠

Do Not Use On Painted Surface
Without Adding TPS Bonding Agent



TECHNICAL DATA SHEET

TPS PATCHING GREY 556

PRODUCT DESCRIPTION

TPS Patching Grey 556 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
- ✓ Scratch resistant surface finish

PRODUCT DATA

Form	: Powder
Appearance / Colours	: Grey
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.

TECHNICAL DATA

Binder	: Ordinary Portland Cement
Filler	: Graded Silica Sand / Limestone powder
Aggregate Size	: 1-1.5mm
Flexural Strength	: 4.5 N/mm ²
Dry Bulk Density	: 1360kg/m ²
Adhesion Strength	: 0.47 N/mm ²
Compressive Strength (28 Days)	: 15.5 N/mm ²
Air Content	: 11 %
Coefficient of capillary water absorption	: Min. 0.5 kg/m ² .min ^{0.5}

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	: 20kg TPS Patching Grey 556 + 5kg clean water
Mixing ratio	: 40Kgs for 12m ² per coat up to 6mm per layer
Coverage (According to mixing ratio above)	: 40Kgs for 12m ² per coat up to 6mm per layer
Substrate Quality	: Concrete and brick surfaces must be clean, free from grease, oil and loosely adhering particles.
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 suitability 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)

9 & 10, JLN PKNK 3/7, KAWASAN PERUSAHAAN SUNGAI PETANI
08000 SUNGAI PETANI, KEDAH, MALAYSIA

Phone: 04-4102148 Email: sales@shijiru.com Website: www.shijiru.com



华语



ISO 9001:2015





SIRIM QAS International Sdn. Bhd. (410334-X)
No. 1, Persiaran Dato' Menteri, P.O. Box 7035, Section 2
40700 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: 03-55445854/5856
Fax: 03-55445886
www.sirim-qas.com.my

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/ Method of test : BS EN 998-1 : 2010
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 Complete Application : 09th May 2016

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

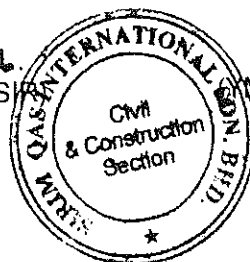
Description of test results : The test report covers only test clauses as requested by Applicant to SIRIM QAS International Sdn Bhd. The test results for the submitted test samples as described in this test report complied with the requirements of the above reference standard at the respective clauses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

Issued date

18 JUL 2016

Approved Signatory

(MOHD HAFIZ MOHD NASIR)
Testing Executive



(M. RAJA NOR SIHA RAJA ABD. HANAN)
Head

Civil & Construction Section
Testing Services Department

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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 1015-10: 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	<u>Dry Bulk density</u> 1) 1360 kg/m ³ 2) 1350 kg/m ³ 3) 1380 kg/m ³ Mean: 1360 kg/m ³	Declared range of values by manufacturer

18 JUL 2016



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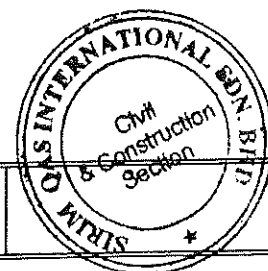
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 Brand : TPS
 Model : TPS Patching Grey & White
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 Method of Test : 1) BS EN 998-1 : 2010
 Mortar for masonry – Specification – Part 1: Rendering and plastering mortar
 2) BS EN 1015-11: 1999,
 Methods 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>

18 JUL 2016



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 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	<u>Adhesion Strength</u> 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 <u>Fracture pattern</u> Fracture pattern a: Adhesion fracture – Fracture at the interface between mortar and adhesive	≥ 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 1015-7: 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

18 JUL 2016





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





METHOD STATEMENT FOR TPS PATCHING GREY

1. INTRODUCTION

TPS Patching Grey is a high quality plaster top coat for external wall finishes. It can minimize shrinkage crack up to 90% at the same time provides excellent workability and high quality surface finishes.

2. SUBSTRATE EXAMINATION

Before carrying out render works, ensure that: -

- a. All surfaces must be clean, free from dust, oil or traces of foreign materials that can affects adhesion. Protrusions such as wood peels and nails have to be removed prior to apply TPS Patching Grey.

3. SUBSTRATE PREPARATION

Before carrying out the render works, ensure that: -

- a. All surfaces must be clean, free from dust, oil or traces of foreign materials.

4. APPLICATION

- a. Mix 20kg of TPS Patching Grey with 5 litres of clean water until a homogeneous paste is achieved. Additional water can be added if required.
- b. A resting time of 3 minutes is recommended for best consistency.
- c. TPS Patching Grey mortar is applied using a steel trowel or spatula. As good practice, a maximum thickness of 10mm is recommended (2-3 coats).

5. REMARK

- TPS Patching Grey is suitable for both interior and exterior use.
- TPS Patching Grey should not be applied on painted surfaces.



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VR2022-014

SAFETY DATA SHEET

1. PRODUCT & COMPANY INFORMATION

General Product Name : **TPS Patching Grey**
Product Description : **Cement-based product formulated for thin cementitious plaster**

2. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS #	Description
Colored Composite Cement	65997-15-1	A preparation of cementitious mix based on a significant portion of portland cement, graded limestone powders, graded sand and other chemicals. Detail information on content is confidential.

3. HAZARDS IDENTIFICATION

Classification of the hazardous chemical

Skin corrosion/irritation : Category 2
Serious eye damage/eye irritation : Category 1
Skin sensitisation : Category 1

Label elements

Hazard pictograms :

Signal word : Danger

Hazard statements : H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.



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Precautionary statements : **Prevention:**
P261 Avoid breathing dust.
P264 Wash skin thoroughly after handling.
P280 Wear protective gloves/ eye protection/ face protection.

Response:

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.
P333 + P313 If skin irritation or rash occurs: Get medical attention.
P362 Take off contaminated clothing and wash before reuse.

Other hazards which do not result in classification

None known.

4. FIRST AID MEASURES

If irritation or other symptoms (as noted above) occur or persist from any route of exposure, remove the affected individual from the area and get medical aid.

EYES: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. Occasionally lifting the upper and lower eyelids with fingers and roll eyes in circular motion. Get medical aid if needed.

SKIN: Wash exposed areas of the body with soap and water. Get medical aid if irritation develops or persists

INHALATION: Remove from area of exposure and move to fresh air immediately; seek medical attention if symptoms persist.

INGESTION: Never give anything by mouth to an unconscious person. Get medical aid. Do not induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cups or milk or water.

Note to Physician: Treat symptomatically and supportively.



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5. FIRE FIGHTING MEASURES

Extinguishing Media

Dry chemical, foam, water, or extinguishing media appropriate for surrounding fire.

Unusual Fire and Explosion Hazards

Material poses no fire-related hazard.

Special hazards arising from the mixture

None known

Special Protective Equipment and Precautions for Firefighters

A SCBA is recommended to limit exposures to combustion products when fighting any fire.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

: Use personal protective equipment. Avoid breathing dust. Deny access to unprotected persons.

Environmental precautions

: Do not flush into surface water or sanitary sewer system.

Methods and materials for containment and cleaning up

: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling:

Keep away from heat. Do not ingest. If ingested, seek medical advice immediately and show the container or the label. Wash thoroughly after handling. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid drinking, tasting, swallowing or ingesting this product. Provide eyewash fountains and safety showers in the work area.

Storage:

No special packaging required. Not classified as dangerous goods under the United Nations Transport Recommendations.



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8. EXPOSURE CONTROL /PERSONAL PROTECTION

Engineering Controls:

Facilities storing or utilizing this materials should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low. Always provide effective general and when necessary local exhaust ventilation to draw spray, aerosol, fume, mist, and vapour away from workers to prevent routine inhalation.

RESPIRATORY PROTECTION:

In case of insufficient ventilation, wear suitable respiratory equipment

PERSONAL PROTECTIVE EQUIPMENT EYES:

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

OTHER PROTECTIVE MEASURES:

Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Appearance: Grey

Odour: Odourless

PH @ 1.0% H₂O: 6.0 – 8.0

Vapour Pressure: Not available.

Vapour Density, Not available.

Boiling Point: Not available.

Freezing/ Melting Point: Not available.

Decomposition Temperature: Not available.

Volatiles, % by weight: Not available.

Specific Gravity (H₂O=1): Not available.

Solubility in H₂O, % by Volume: Soluble

Evaporation Rate: Not available.

Viscosity: Not available.



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10. STABILITY AND REACTIVITY

GENERAL: This product is stable.

CONDITIONS TO AVOID: Incompatible materials, dust generation, excess heat

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: Strong oxidizing agents HAZARDOUS

DECOMPOSITION PRODUCTS: Combustion produces carbon monoxide, carbon dioxide.

HAZARDOUS POLYMERIZATION: Has not been reported.

11. Toxicological Information

Potential Health Effects:

CAUTION! Repeated inhalation of dust can cause sensitization to susceptible individuals & may cause eye irritation. Pre-existing skin problem may be aggravated by prolonged or repeated contact.

INHALATION: Dust inhalation may cause coughing, mucous production and shortness of breath.

EYE CONTACT: Direct contact may cause irritation.

SKIN CONTACT: Prolonged or repeated contact is no expected to create acute health effects.

INGESTION: No ingestion effect known.

Chronic health effects: None known

Symptoms / Sign of exposure: Irritation

Routes of exposure: Eye contact, Inhalation

Carcinogenic status: The components of this mixture are not known to be listed or regulated by IARC, NTP, OSHA, ACGIH.

As with all chemicals for which test data are limited or non-exist, caution must be exercised through the prudent use of protective equipment and handling procedure to minimise exposure.



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12. Ecological Information

Ecotoxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

Mobility in soil

No data available

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents. Dispose of as unused product.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Environmentally hazardous : no

IATA-DGR

UN/ID No. : Not applicable



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Proper shipping name : Not applicable
Class : Not applicable

Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
Packing instruction (cargo aircraft) : Not applicable
Packing instruction (passenger aircraft) : Not applicable

IMDG-Code

UN number : Not applicable
Proper shipping name : Not applicable
Class : Not applicable
Subsidiary risk : Not applicable
Packing group : Not applicable
Labels : Not applicable
EmS Code : Not applicable
Marine pollutant : Not applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied. No special precautions are needed apart from those mentioned under heading 8.

15. REGULATORY INFORMATION:

Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

International Chemical Weapons Convention (CWC)

Schedules of Toxic Chemicals and Precursors: Not applicable



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VR2022-014

16. OTHER INFORMATION:

SDS Prepared by: Vivo Raiser Sdn Bhd

Phone Number: +6044102148

Date of Preparation: 1 January 2017

Revision indicators and Date

Effective Date Change: 9 May 2018 Supersedes: 5 May 2018

Format Changes: Conforms to OSHA 29CFR 1910.1200 (HCS)

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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

To verify certificate, visit at :

www.arscert.com

www.uafaccreditation.org

www.iafcertsearch.org

Issued by ARS Assessment Private Limited


Managing Director



CB-MS-3926



UAF Address : 400, North Center Dr, STE 202, Norfolk, VA 23502, United States of America

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Certificate of Registration



This is to certify that the Occupational Health and Safety 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 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

st Surveillance Date : 27-Jan-2026

Next Due Date : 26-Feb-2026

Certificate Expiry Date : 26-Feb-2028

To verify certificate, visit at :

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Abhishek
Managing Director



CB-MS-3919



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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

To verify certificate, visit at :

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Abhishek
Managing Director



CB-MS-3923



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