

## 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 3m<sup>2</sup> per coat at 10mm thickness

### 4. MIXING PROCEDURE

- Pour the measured clean water into a suitable mixing container.
- Gradually add the powder while mixing continuously with a slow-speed drill mixer (400–600 rpm).
- Mix for 3–5 minutes until a smooth, homogenous, lump-free paste is achieved.
- Allow the mixture to stand (slake) for 3–5 minutes. Re-mix before application.
- 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 m <sup>2</sup> per 40kg per 10mm thickness
Compressive Strength (28 days)	3.5–7.5 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)

## 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.

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