

## METHOD STATEMENT TECHNOBOND E.T BOND 168



### 1. INTRODUCTION

TECHNOBOND 168 is a high-quality cement adhesive tailored for designed for 300mm x 300m ceramic tiles and homogeneous tiles on walls and floors. This adhesive is classified as C1 according to EN 12004 / ISO 13007. It function as a multi-purpose thin render for wall surface preparation. Its balanced blend of cement, graded sand, and performance additives provides excellent adhesion, ease of application, and strong mechanical properties, enabling the product to serve dual functions on site. The

purpose of this document is to ensure that tiling works are executed safely, efficiently, and in full compliance with project specifications, manufacturer's recommendations, and industry best practices.

### 2. SUBSTRATE PREPARATION & INSPECTION

- a) Ensure all surfaces are structurally sound, level, clean, and free from dust, oil, grease, curing compounds, paint flakes, laitance, and any foreign matter that may impair adhesion.
- b) Concrete walls/floors must be cured for a minimum of 28 days before tiling.
- c) Cement renders and screeds must be cured for at least 7 days, finished to a semi-smooth surface with a wood float, and checked for sound adhesion. Cracks must be repaired before tiling.
- d) Painted surfaces must be mechanically roughened (wire brush or grinding) to expose a sound substrate. Loose or flaking paint must be removed.

*\*\*Lightly dampen the surface before applying for Rendering Application*

- e) Background tolerances must comply with tiling standards. When checked with a 2m straightedge, the deviation must not exceed 3 mm. Local correction (up to 6 mm) may be carried out using TPS Thin Bed Adhesive.



### 3. MATERIAL PREPARATION

- One (1) bag of TECHNOBOND 168 = 25 kg.
- Tile Installation > Water required: 5.5 liters (22% by weight of cement).
- Wall Rendering > Water required: 6 liters (24% by weight of cement)
- *\*\*Mixing water must be potable, free from salts and organic impurities.*
- Coverage:

1' x 1' Tile: approximately 26 pieces (varies with trowel thickness and wall leveling)

Recommended tile sizes:

- Wall tiles: up to 300 × 300 mm
- Floor tiles: up to 300 × 300 mm

*\*\*For larger tiles, or areas subject to high load/vibration, a C2 class adhesive is recommended.*

- For specific applications (large format tiles, external works), TPS Bonding Agent may be added in a 1:1 water-to-bonding agent ratio to improve adhesion.



## 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 30minutes after mixing.*

## 5. APPLICATION

### 5.1 Tile Installation



- a) Spread adhesive onto the prepared substrate using a trowel, then comb through with a notched trowel of appropriate size (e.g., 6 mm × 6 mm for tiles ≤ 300 mm × 300 mm).
- b) Do not spot-fix tiles. If tile backs are dusty, clean with a damp cloth.
- c) Apply only as much adhesive as can be installed within the product's open time (~10 minutes). Do not allow the adhesive surface to skin before tiling. Total thickness of the adhesive should not exceed 10mm after pressed/hammered/levelling.
- d) After spreading the adhesive, press/hammer the tile firmly with rubber hammer into place with a slight sliding/twisting motion to achieve maximum coverage.
- e) For tiles ≥ 300 mm × 300 mm, or with deep ribs/lugs, back-butter the tile with 4-5 mm adhesive (mixed with TPS Bonding Agent solution 1:1) to ensure full bedding and eliminate voids.



# VIVO RAISER SDN. BHD.

RegNo: 201001036884 | TIN: C21294886050 | MSIC Code: 23959 | SST No: A10-2508-22200004

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- f) Periodically remove a tile during fixing to check proper adhesive contact coverage (minimum 80% internal, 95% external, as per ISO 13007).

## **5.2 Wall Rendering**

- a) Apply a thin, even coat of render using a steel trowel at a thickness of 2–3 mm per layer.
- b) Press firmly to ensure proper bonding to the substrate.
- c) For total thickness above 3 mm, apply in **two thin layers**, allowing the first layer to set before the second.
- d) Smooth and level the surface using a straight edge or trowel.
- e) If a fine finish is required, Lightly trowel after the material begins to firm up, OR sponge float to achieve a slightly textured finish.

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

## **6. CURING & PROTECTION**

### **6.1 Tile Installation**

- a) Tiles must not be exposed to running water or rain for at least 24 hours after installation.
- b) Grouting can commence after 24 hours.
- c) Light foot traffic is permitted after 4 days.
- d) Heavy foot traffic and loading are permitted only after 14 days.
- e) Protect tiled areas with boards or sheets against impact, staining, or contamination during curing.
- f) Avoid application under direct sunlight, rain, or strong wind.
- g) Recommended substrate temperature: 5°C – 35°C.

### **6.2 Wall Rendering**

- a) Light misting may be done for the first 24 hours if the weather is hot or windy.
- b) Avoid water ponding or direct water splash.
- c) Protect the surface from rapid drying, dust, or impact.



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## 7. QUALITY ASSURANCE & SAFETY

- Conforms to ISO 13007 / BS EN 12004 requirements for cementitious adhesives.
- Ensure mixing water is clean and potable.
- Wear gloves, goggles, and dust mask. Avoid inhalation of dust and contact with skin.
- First aid: In case of contact with skin or eyes, rinse immediately with clean water and seek medical advice if irritation persists.



## 8. DISCLAIMER

The information provided herein is based on our best knowledge and is intended as a general guide for the proper use of TECHNOBOND 168. 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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