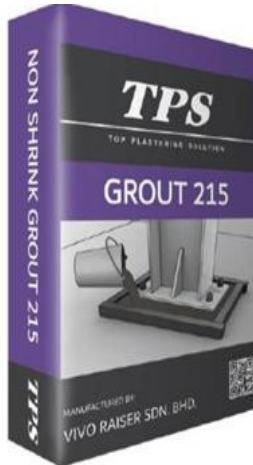


METHOD STATEMENT

TPS NON SHRINK GROUT 215 25KG



1. INTRODUCTION

TPS Non Shrink Grout 215 is a pumpable shrinkage compensated cementitious grout. For free flow, positive expansion grouting application such as structural members such as precast wall panel, beam and column / retaining walls, concrete patch up / repairs and pressure grouting. Product reference Test Standards are ASTM C348-14, ASTM C349-18 and ASTM C940-16.

Key Benefits:

- Consistent factory-controlled quality
- Excellent flowability and workability
- High early and final compressive strengths without shrinkage cracks
- Adjustable consistency (can be mixed to fluid or pourable states)
- Suitable for interior and exterior use

2. SUBSTRATE PREPARATION & INSPECTION

1. Ensure all substrates (concrete bases, cavities, or pockets) are clean, sound, and free of dust, grease, oil, formwork oil, laitance, or loose material.
2. Repair major defects or deep holes using appropriate structural filler, and ensure any temporary alignment shims or leveling bolts are securely placed prior to grouting.

3. For absorbent or porous concrete substrates, thoroughly dampen the surface with clean water for at least 2 hours before application to prevent rapid moisture loss.
4. Just before pouring, remove all standing water, puddles, or excess moisture from the cavity using a sponge or compressed air (**surface must be Saturated Surface Dry - SSD**).
5. Mask surrounding areas to prevent splashes.
6. Construct formwork that is rigid, watertight, and securely braced. Seal all gaps using silicone or foam tape to prevent grout leakage. On the pouring side, construct a sloped head box higher than the baseplate to maintain hydrostatic pressure.

3. MATERIAL PREPARATION

25kg NSG 215 + 3.5kg clean water (Pourable-12%)

25kg NSG 215 + 4.5kg clean water (Flowable-16%)

*Coverage / Yield: Approximately 13.2 liters of fluid grout volume per 25kg/bag
(approximately 76 bags required per 1m³ of grout).

*Pot life: Up to 30minutes after mixing.

4. MIXING PROCEDURE

1. Pour about 70–80% of the measured clean water into a suitable mixing container.
2. Gradually add the powder while mixing continuously with a slow-speed drill mixer (300–500 rpm).
3. Add the remaining water and mix for not more than 3 minutes until a smooth, homogenous, lump-free fluid paste is achieved.
4. Allow the mixture to stand for 1–2 minutes to release entrained air. Re-mix slightly before application.
5. Do not add extra water after mixing.

5. APPLICATION

1. Apply / pour grout immediately after mixing. Pour the material from one side only into the formwork to avoid trapping air or creating hollow voids beneath the baseplate. (Recommended application thickness: 5mm–50mm per pour)
2. Maintain continuous and uninterrupted grout flow until the entire cavity is completely filled and use steel rods or chains to assist the flow of grout where necessary
3. For sections thicker than 50mm, incorporate clean, graded 10mm silt-free aggregates to minimise temperature rise during curing. Aggregate addition shall not exceed 1 part aggregate to 1 part grout by weight unless otherwise approved by the manufacturer.
4. Immediately during application, maintain a continuous head of grout in the formwork hopper to force uninterrupted flow across the entire underside of the plate.
5. Trim or finish exposed edges with a trowel or sponge as required (during initial set) to form a neat 45° chamfer profile.
6. Protect fresh grout from direct sun, strong wind, or rain.

****Avoid over-agitation or heavy rodding, as this may cause air entrainment or bleeding.**

****Do not apply during heavy rain**

****Avoid application under direct hot sunlight where substrate temperature exceeds 35°C**

6. CURING PROCESS

1. Protect freshly poured grout from vibration, impact, and direct rain during the initial setting phase.
2. Wet Curing: Keep exposed grout surfaces covered with damp burlap, wet hessian sacks, or polythene sheeting for a minimum of 3–7 days

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.



The information provided herein is based on our best knowledge and is intended as a general guide for the proper use of TPS NON-SHRINK GROUT 215 25KG. 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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