



STRONG GP GROUT

Non-Metallic General-Purpose Non-Shrink Grout

DESCRIPTION

STRONG GP GROUT is a non-metallic non-shrink cementitious grout suitable for grouting 20-150 mm gap. It is shrinkage-compensated, non-metallic and chloride-free. It will not rust or create air pockets resulting in high compressive strength, and can resist impact and abrasion. STRONG GP GROUT consists of specially graded sand, portland cement, plasticizer. It is suitable for underplate grouting, crack repairs, cavities filling, and other grouting operations.

APPLICATION

Surface Preparation

The surface to be applied must be clean, sound, and without dusts, oil, grease stains. The top layer should be removed to give a textured surface for better bonding. The underplate must also be clean, without rust or grease stains. Thoroughly wet the concrete surface with clean water until saturated but no standing water.

Mix ratio

One 25-kg bag of STRONG GP GROUT can be mixed with water as follows:
4.3 litres for liquid consistency with high flow rate.
4.0 litres for moderate consistency and moderate flow.
3.5 litres for mortar with trowelable consistency.

MIXING

Pour 90% of the water needed into a mixing vessel. Slowly add STRONG GP GROUT into the vessel and use low-speed mixer to mix for 2 minutes. Then add the rest of the water. Continue mixing for another 3 minutes. The mortar is then ready-to-use. In case the application thickness exceeds 150 mm, aggregates, size 10 mm can be added for 12.5 kg per bag (half the weight of powder used). Make sure the formwork is watertight and completely sealed to prevent leakage. The mixed mortar should be poured from one side to prevent entrapped air and should be done in single continuous operation to ensure the mortar is well compacted. Machines should be set before installing STRONG GP GROUT. All tools or equipment that must be removed after installation should be covered with a mould-release agent.

PHYSICAL PROPERTIES

Compressive strength (N/mm²)

1 day	38.8
3 days	53.2
7 days	64.6
28 days	76.2

EXPANSION 0.10%-0.30%

STRONG GP GROUT MEETS THE FOLLOWING STANDARDS;

Australia: SSA MP20, PART 3 – 1977 – O Type A plastic state expansion

America: ASTM C1107-91 Grade Prehardening Volume Adjusting expansion system.

Corps of Engineers: Specification CRD-C621- 89A (Revised). Grade A expansion

Type of material: General-purpose, non-metallic, non-shrink grout.

Yield: 1 25-kg bag of STRONG GP GROUT yield 14 litres of mortar (72 bags yield 1 cu.m.)

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