

StrongGrout FL50 Premix

Flowable, High Strength, Shrinkage Compensated Grout

Description

StrongGrout FL50 Premix is a non-shrink, cementitious preblended grout, ready to use, specifically designed to be highly fluid without segregation of the constituents, ready to use product and only requires addition of water. It is used for special fast works for thin slab and floor surface repairs.

StrongGrout FL50 Premix is a fluid grout which has fast setting and early strength development through its technically advanced cement technology. This allows the grout to remain fluid during placement and ensures a early strength and durable slab and floor solution. **StrongGrout FL50 Premix** is useful for many important infrastructure project especial surface problems of concrete slabs.

Uses

StrongGrout F70 Premix is suitable for repairs to concrete structures and the following grouting works

- Machine foundations
- Columns, beams and slabs repairs
- Piles, pile caps repair
- Brigdes repair

Advantages

- Prepacked material, ready to use only addition with water.
- Rapid strength gain and high compressive strength.
- Low permeability provides maximum protection against CO2 and chloride.
- High flowable and pumpable.
- Non shrink, dual shrinkage control and hardening stage
- Non chloride content and alkali content.

Standards Compliance

- ASTM C-109
- ASTM C-348
- ASTM C-940 : 2016

Physical Properties

Water-powder ratio at 0.133 (28°C)

Test Method	Typical Result
Compressive Strength ASTM C-109	> 30 N/mm2 @ 24 hrs > 42 N/mm2 @ 7 days > 54 N/mm2 @ 28 days
Flexural strength ASTM C-348	> 10 N/mm2 @ 28 days
Bond Strength	'> 1.5 N/mm2 to rough concrete
Water requirement	4.0- 4.5 liter per 25 kg
Expansion ASTM C-940	0.3 – 1.0 %
Setting Time(28°C) Pot life	4 hours (initial) 60 mins
Fresh wet density	2,300 ± 0.05 kg/m3

Application instructions Preparation

The surface area of the repair must be kept to a minimum requirements. Substrate shall be free from any contaminated material, loose particle, oil, paint, grease etc. Where breaking out is not required, roughen the surface and remove any laitance by light scabbling or grit-blasting.

Substrate Priming

Prior to the application of **StrongGrout FL50 Premix** the surface must be applied with good primer. StrongPrime EPW50 or StrongPrime EPW70 is recommended to achieve maximum adhesion strength between **StrongGrout FL50 Premix** and existing slab surfaces.

Mixing

StrongGrout FL50 Premix must be thoroughly mixed. A forced-action mixer is essential. Mixing in a suitably sized drum or pail using an approved spiral paddle in a slow speed (400/500 rpm) heavy-duty drill is suitable. Mixing of part bags is not recommended. It is essential that machine mixing capacity and labour availability is adequate to enable the placing operation to be carried out continuous grouting works.

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Measure 80 % of 4.5 – 5.5 litres clean water and pour three-quarters into the drum. With the machine in operation, add one full 30 kg bag of **StrongGrout FL50 Premix** and mix for one minute before adding the rest of the water. Mix for a further 2 to 3 minutes until a smooth even consistency is obtained. The quantities mixed may be scaled up as required. When the drill and paddle miximethod is used, the complete 4.5 – 5.5 litres of water should be placed in the mixing drum.

Applications

StrongGrout FL50 Premix may be poured or pumped into place. Substrate surfaces must be free from oil, grease and weakened surfaces and must be previously priming.

When pouring mixed **StrongGrout FL50 Premix**, exposed surface areas, care should be taken during curing.

Packing and Yield

StrongGrout FL50 Premix

1 bag 30 kgs → yield : 15 litres
67 bags @ 30 kg → yield : 1 m3
(actual yields depending on water added)

Cleaning

Use clean water to remove remaining grout from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Technical Support

Estrong provides technical supports to specifiers, end-users and contractors, as well as on-site technical assistance.

Storage

StrongGrout FL50 Premix should be stored on pallets in dry and shaded conditions where under such conditions, the product will have a shelf life of 6 months.

Safety Precaution

StrongGrout FL50 Premix should not be in contact with sensitive skin and eyes. Avoid inhalation of dust during mixing. Wear gloves, goggles and dust mask.

Additional Information

Estrong is Indonesian company, manufactures and sells wide range of construction chemical products, such as grouts, anchors, repair mortars, waterstops, waterproofing product, concrete strengthening products and specialized flooring products.