

NON-SHRINK FLUID GROUT

Description

Maxcrete 650 Non-Shrink Fluid Grout is a high strength self levelling grout that consist of high quality Portland cement, graded natural aggregate and shrinkage compensating additives. It requires only the addition of water to form a free flowing grout with extended working time to suit local ambient temperatures.

Features

- ✓ Require only addition of water with adjustable consistency.
- ✓ Pourable or placed with suitable grout pump.
- ✓ Excellent flow-ability and self levelling.
- ✓ Able to fill intricate voids.
- ✓ High early and ultimate strength.
- ✓ Good dimensional stability and no bleeding.
- ✓ Impact and vibration resistant.
- ✓ Chloride and iron free, non-toxic and non-corrosive.
- ✓ Extended pot life.

Uses

- ✓ Filling of honeycomb and cavities.
- ✓ Machine foundation and rail beds.
- ✓ Under-plate.
- ✓ Anchor bolts.
- ✓ Columns in precast construction.
- ✓ Gaps between precast elements.
- ✓ Pipe openings.
- ✓ Other non-shrinkage filling requirements.
- ✓ High strength application.

Technical Data



Packaging	25 kg
Water Ratio	13.5%
Coverage Yield	
25kg Maxcrete 650	13.0 Liter (0.013 m ³)
With 50% Aggregate	17.5 Liter (0.0175 m ³)
With 100% Aggregate	22.0 Liter (0.022 m ³)
Flow Spread	250 mm
Flow Spread After 30 minutes	230 mm
Bleeding	0%
Height Change at Final Set	0.11%
Expansion of Hardened Mortar (1-28 days)	0.08 – 0.28 mm/M
Compressive Strength	
1 day	30 N/mm ²
3 days	50 N/mm ²
7 days	59 N/mm ²
28 days	66 N/mm ²

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Mixing

- Maxcrete 650 : 25 kg
- Clean Water : 3.25 – 3.50 liter

Pour 3.0 liter of water into mixing container and slowly add Maxcrete 650 powder while stirring with an electrical mixer at 500 rpm. Adjust to desired consistency by adding part portion of 0.5 liter water. Mix for 3 minutes until lump free homogenous consistency.

Preparation

Concrete surfaces shall be clean, sound and free from contaminants, laitance and loose particles.

Iron and steel surfaces shall be free from scale, rust, oil and grease.

Absorbent substrates must be saturated thoroughly, leaving no standing water before grout placement.

Erect formwork if necessary, ensuring a well braced, strong and watertight construction.

Application

Maxcrete 650 grout should be pumped or poured into place upon mixing. Fill continuously onto a single point to promote flow and avoid entrapping air. Use steel rod or chain to ensure all cavities are filled.

Under-plate : Construct a strong and watertight formwork and flood the area overnight. Leave no standing water and prepare sufficient material to obtain a continuous flow. Fill only from 1 side and maintain sufficient pressure head with uninterrupted grout flow. Use steel rod or chain to aid complete filling and finish the placement in the shortest possible time.

Machine foundation & Rail beds : Remove standing water from bolt holes and grout anchors in the 1st operation. Pour the foundation bed in the 2nd operation with uninterrupted grout flow.

Large Cavity/Volume : To prevent over-heating, add aggregate at ratio of between 50-100% by weight of Maxcrete 650 powder. Well graded aggregate up to 30mm can be used but it must not exceed 33% the size of the minimum gap. The use of cold water to mix the grout will be beneficial in keeping temperature down during initial cure.

Curing

Protect from strong sunlight and high windy condition during curing. Keep moist for the next 3 days.

Storage & Shelf Life

Keep elevated in dry, moisture free condition. Can be stored for 12 months in sealed original packaging.

MAXCRETE 650

PRODUCT INFORMATION
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Health & Safety

Prevent contact with skin and wear waterproof gloves and goggles when handling. Upon contact with skin, wash with soap and water. In case of eye contact, flush with water and seek medical attention immediately.

Note The information in this publication is given in good faith and is based on our current knowledge and experience.

We assume no liability, expressed or implied, to any particular use and/or application.

All information herein is effective from the date of issue and supersedes all previous editions.

* Values are typical and not meant as performance benchmark.