

NON-SHRINK PATCHING GROUT

Description

Maxcrete 651 Non-Shrink Patching Grout is a high strength 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 stiff grout with plastic consistency to mold into shapes and patch cavities without formwork support.

Features

- ✓ Require only addition of water.
- ✓ Stiff consistency eliminating formwork support in vertical applications.
- ✓ No bleeding.
- ✓ High early and ultimate strength.
- ✓ Good dimensional stability.
- ✓ Impact and vibration resistant.
- ✓ Chloride and iron free, non-toxic and non-corrosive.

Uses

- ✓ Repairing chips in columns and walls.
- ✓ Patching holes, voids and cavities.
- ✓ Floor topping.
- ✓ Nosing edges.
- ✓ Anchor bolts.
- ✓ Forming fillets and chamfers.
- ✓ Other non-shrinkage filling requirements.
- ✓ High strength application.

Technical Data



Packaging	25 kg
Water Ratio	17 - 18%
Coverage Yield	
25kg Maxcrete 651	14.0 Liter (0.014 m ³)
With 50% Aggregate	18.5 Liter (0.0185 m ³)
With 100% Aggregate	23.0 Liter (0.023 m ³)
Flow Consistency	Plastic
Setting Time - Initial	≤ 180 mins
- Final	≤ 250 mins
Bleeding	0%
Volume Change	No change
Bond Strength	1.7 N/mm ²
Flexural Strength	7.4 N/mm ²
Compressive Strength	
7 days	> 35 N/mm ²
28 days	50 N/mm ²

NON-SHRINK PATCHING GROUT

Mixing

- Maxcrete 651 : 25 kg
- Clean Water : 4.25 liter

Pour 4.0 liter of water into mixing container and slowly add Maxcrete 651 powder while stirring with an electrical mixer at 500 rpm. Adjust to desired consistency by adding part portion of 0.25 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.

Application

Holes, Voids & Cavities : Compact the freshly mixed grout into the repair area and finished with a steel trowel. Apply only up to 20mm thickness per layer when using Maxcrete 651 without addition of aggregate.

Large Cavity/Volume : To prevent over-heating, add aggregate at ratio of between 50-100% by weight of Maxcrete 651 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.

Floor Topping : Premix 15 kg of sand (size: 2.5 – 5.0mm) to 25 kg Maxcrete 651. Dilute 3 liter Maxcrete Latex with 3 liter clean water and slowly add the premixed of sand and grout. Stir with an electric mixer until homogenous and lump free. Adjust to the desired consistency by adding more diluted latex or premix before placement.

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 651

PRODUCT INFORMATION
Issued 01.06.2022

NON-SHRINK PATCHING GROUT

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.