

Non-Shrink Grout

Packaging



Mixing



Application



Uses



Substrates

Concrete
Brick, Block
Cement render

Class A expanding grout

Description

A premixed, non-shrink class A cement grout. An expanding non-ferrous grout consisting of a dry, premixed blend of Portland cement and graded, siliceous aggregate with set regulating and reactive chemical agents.

Contains no calcium chloride.

Uses

- Underpinning and brickwork repairs
- Grouting of machine bases, column bases (steel and precast concrete) anchor bolts and similar grouting applications
- Patching holes in masonry surfaces

Features

- Controlled expansions, ensuring positive surface contact
- No corrosive effect caused by metallic residue
- No rusting or staining on exposed edges
- Premixed, addition of water only needed

Performance Data

Strength

The following strength development pattern is typical for a dry pack grout mix.

Non-Shrink Grout: Water ratio - 50 parts by weight to 7 parts by weight.

Compression Strength

(50.8mm cubes restrained) (ASTM C109)
33MPa (3 days)
45MPa (7 days)
60MPa (28 days)

Expansion

Free expansion - approximately 2.9%.
Expansion complete in 1.5 hours.

Setting time

Non-Shrink Grout will develop initial set in approximately 1.5 hours @ 22°C. Lower temperatures will increase set times.

Coverage (Approximate)

For each cubic metre of grout required allow approximately 100 x 20kg bags.

Specification

The **Non-Shrink Grout** will be a non-metallic cement grout and shall have a minimum compression strength of 60MPa such as **Non-Shrink Grout** manufactured by **Construction Chemicals** and shall be applied in accordance with the manufacturers instructions.

Surface Preparation

All surface laitance and unsound concrete must be chipped away so that a reasonably rough, but strong sound surface is provided. All surfaces must be free from oil, grease and dust, this particularly applies to the underside of bed plates, bolts, pipes or other materials which may have surface contact with the grout. After cleaning, saturate the concrete surfaces with clean water for approximately 6 hours prior to applying **Non-Shrink Grout**. Ensure that no freestanding water is present on surfaces of foundations or in bolt holes before applying **Non-Shrink Grout**.

Mixing

Add clean water to **Non-Shrink Grout** (premixed) in ratio recommended for grout consistency required. Use as little water as is required for ease of placement.

Flowable Grout

Up to 4 litres water to 20kg **Non-Shrink Grout**.

Plastic Mortar Mix

Approximately 3 litres water to 20kg **Non-Shrink Grout**.

Dry-Pack Mortar Mix

Approximately 2 litres water to 20kg **Non-Shrink Grout**.

Job conditions, including temperatures, may require adjustments as may be essential for practical purposes. Small trial batches to ascertain the best working consistency for the operation are recommended.

Use mechanical mortar mixes, preferably of the paddle or revolving drum type. Hand mixing rarely achieves the desired results. Allow approximately 5 minutes mixing. Thorough mixing is essential for achieving maximum results.

Non-Shrink Grout should be placed within 1/2 hour of mixing. During that time, keep material in mixer well agitated. After 1/2 hour discard any grout mix that shows signs of stiffening.

Application

Flowable Non-Shrink Grout

May be used with low pressure cement grout equipment or may be hand rodded into restrained sections. High points must be adequately vented to allow entrapped air to escape.

Plastic Non-Shrink Grout

May be rodded into place or trowelled where freedom of movement permits. Consistency can range from a thick paste to a smooth plastic mix.

Dry-Pack Non-Shrink Grout

Must be firmly presses or rammed into place. Use metal or hardwood tamping tools and suitable trowel equipment. Consistency should allow forming into firm hard ball without cracking.

Note: Use clean equipment at all times. Wash mixers, pressure equipment and hand tools with clean water promptly after use.

Storage

Store in dry, cool conditions.

Shelf Life

1 year

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