

## DuraGrout® 555M

High performance, cement-based, shrinkage compensated masonry grout

### Description

**DuraGrout 555M** is a pre-blended cement-based powder. When mixed with water, it provides superior flowable grouting mortar. After drying, it gives a durable, high strength non shrink grout.

**DuraGrout 555M** is specially formulated to fill voids of masonry structures. It is also used to bond reinforcing bars to masonry bricks. **DuraGrout 555M** complies with the requirements of ASTM C 476.

### Features and benefits

- Good bond strength to masonry, concrete and steel.
- Low permeability.
- Flowable consistency to fill any void easily.
- Excellent physical properties.
- Non-shrink.

### Recommended for

- Filling hollow blocks' voids in masonry structures.
- Filling gaps around special purpose doors' frames.
- Used in conjunction with steel reinforcement to produce structural wall bearing system.

### Composition

**DuraGrout 555M** is composed of high strength Portland cement, compound of selected additives, well graded fillers and aggregates.

### Packaging

**DuraGrout 555M** is available in 25 kg bags.

### Coverage

13.5 liter/25 kg bag.

#### Note:

Coverage is affected by quantity of water addition.

### Technical data

Mixed density	2.15 kg/liter
Compressive strength	>20 N/mm <sup>2</sup> @ 1 day
	>35 N/mm <sup>2</sup> @ 3 days
	>45 N/mm <sup>2</sup> @ 28 days
Bond to concrete	>1.5 N/mm <sup>2</sup>
Pot life	45 minutes @ 25°C
Setting time	7 – 9 hours
Application thickness	>50 mm
Appearance	Grey powder

### Surface preparation

Masonry units to be grouted must be sufficiently cured so that any shrinkage has already occurred.

Steel plates, steel reinforcement, anchor bolts and masonry voids to be grouted must be clean, sound, dust free and uncontaminated.

Wash the prepared surface with water to provide saturated surface dry condition prior to grouting application.

Ensure that bolt holes and pockets, if any, are free from standing water.

Formwork should be fixed tightly. Neither leaking nor movement is allowed during placing and hardening of the grout.

### Mixing

**DuraGrout 555M** grouting mortar can be obtained by mixing 25 kg bag with 3.50±0.25 liters of water.

To ensure proper mixing, a mechanically powered mixer or low speed drill fitted with suitable paddle should be used. Damp down the inside of the grout mixer with water prior to mixing the first batch. Ensure that the mixer is damp but free from standing water. In hot weather, use chilled water. The temperature of the mixed mortar should not exceed 30°C. In cold weather, use warm water. The

temperature of the mixed mortar should be above 10°C.

Add the premeasured quantity of water into the mixer and then add the powder component slowly while mixing. Mix for 5 minutes minimum till a fully homogeneous mortar is achieved without segregation or bleeding.

### Application

Formwork should be fixed tightly. Shade the area to be grouted from direct sunlight. **DuraGrout 555M** bags should be stored in shaded area before use. Temperature of the elements coming in contact with the grout should be between 10°C and 35°C.

Placement can be made by hand or using mechanical pumping equipment. **DuraGrout 555M** should be poured immediately while it is still fresh. It should be poured continuously. Should any delay occur, do not add water. Do not use mechanical vibration. Avoid excessive vibration until the grout has hardened.

### Curing

Immediately cover all exposed grout with damp hessian. Good curing is very important. Always cure with tap water. Keep damp for 5 days. Cover the grout with wet hessian covered with polyethylene sheet.

### Important notes

The quantity of water may vary slightly depending on mixing method and weather conditions. Do not use water in an amount that will cause bleeding or segregation to the mixed grout. Setting time/strength are affected by many factors such as: mixing method, water addition, weather conditions (temperature & humidity) and curing.

### Cleaning

Clean tools with water immediately after use. Hardened materials should be cleaned mechanically.

### Storage and shelf life

To maintain its quality and suitability for use, the product should be stored in its unopened packaging, off the ground on pallets or similar structures, in a cool and dry environment. When stored under these recommended conditions, the product remains suitable for use for 12 months from the manufacturing date stated on the packaging.

### Health and Safety

This product contains cement which may cause skin irritation. It may cause allergic skin reaction and eye damage. Avoid breathing dust. Wear protective gloves, eye goggles and clothing. In case of skin contact, wash with plenty of water. In case of eye contact, rinse continuously with water for several minutes and seek medical attention. Dispose excess material to special waste collection point in accordance with local & national regulation. Keep out of reach of children.

For further information, please ask for Safety Data Sheet for this product.

***The most up-to-date TDS can be obtained from ACC Customer Service Department, or downloaded from our website: [www.acc.com.eg](http://www.acc.com.eg).***

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