

# EstogROUT MP 60

## Multi purpose Shrinkage Compensated Grout

### Description

**EstogROUT MP 60** multi purpose cementitious non-shrink cement grout is formulated to provide good flexural and compressive strength performance. It is a ready to use product in powder form and requires addition of water to produce as non-shrink grout performance.

**EstogROUT MP 60** is a blend of Portland cement, graded fillers and chemical additives that create controlled expansion in the plastic state.

**EstogROUT MP 60 has been tested by SIRIM BHD, in accordance to BS 6319, on Compressive Strength Test, ASTM C 940-98, on Expansion & Bleeding Test, and complied with the specification in this data sheet.**

### Uses

**EstogROUT MP 60** is suitable for a wide variety of precision applications at any consistency from flow able to damp-pack. It is recommended for:-

- General Repair
- Refuse chutes / Generators
- Presses / Milling Machines
- Precast elements / Anchor bolts
- Formwork & base plate grouting

### Advantages

- Non Shrink (Shrinkage Compensated)
- Chloride free & Adjustable consistency
- No metallic iron content to cause staining
- Excellent workability retention even at high ambient temperature
- Pre-packaged grout overcomes potential on-site proportioning variations
- High bond strength to steel and concrete
- Good fatigue and impact resistance

### Standards Compliance

- ASTM C940
- BS 1881, Part 116, 1983
- BS 6319

### Physical Properties

| Water Powder Ratio At 0.18           | 1 day (N/mm <sup>2</sup> ) | 7 days (N/mm <sup>2</sup> ) | 28 days (N/mm <sup>2</sup> ) |
|--------------------------------------|----------------------------|-----------------------------|------------------------------|
| Compressive Strength, BS 6319        | > 20                       | > 50                        | > 60                         |
| Flexural Strength, BS 1881           | > 2.5                      | > 9                         | > 10                         |
| Time For Expansion                   | 15 mins to 2 hours         |                             |                              |
| Fresh Weight Density                 | 2170 kg/m <sup>3</sup>     |                             |                              |
| Expansion Characteristics, ASTM C940 | 0.5 -2.0%                  |                             |                              |

### Application Instructions

#### Preparation

#### Foundation Surface

The surface of the substrate must be sound and free from oil, grease or any loosely adherent material. Bolt holes and fixing pockets must be blown clean of any dirt or debris. To assist in the formation of bond between substrate and grout, pre soaking of the substrate surface with water is advisable.

#### Base Plate

It is essential that this is clean and free from oil, grease or scale. Air pressure relief holes should be provided to allow venting of any isolated high spots.

#### Formwork

All formwork used for grouting should be leak proof. This can be achieved by sealing it with a foam rubber strip or sealant.

#### Mixing & Yield

The quantity of clean water required to be added to a 25kg bag of **EstogROUT MP 60** to achieve the desired consistency is

| Consistency | Water      | Yield        |
|-------------|------------|--------------|
| Flowable    | 4.5 litres | 13.15 litres |
| Fluid       | 4.8 litres | 13.50 litres |

### Application

**EstogROUT MP 60** may be placed in thickness up to 50mm at one pour. For thicker sections above 100mm it is advisable to add in well-graded aggregates, size range between 3mm to 15mm. Quantities of aggregate added to the **EstogROUT MP 60** should not exceeded ratio of 1:1 by weight.

**EstogROUT MP 60** can also be pumped.

### Curing

On completion of the grouting operation all exposed areas, which are not to be cut back, should be thoroughly cured. This should be done after the initial hardening of the grout by continuous application of water or by application of suitable curing compound such as Estocure Product Range.

### Packing & Size

|                        |          |
|------------------------|----------|
| <b>EstogROUT MP 60</b> | 25kg bag |
|------------------------|----------|

### Technical Support

Estop offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on-site technical assistance.

### Storage

**EstogROUT MP 60** should be stored on pallets in dry conditions. Under these conditions the product will have a shelf life of 12 months.

### Precaution

**EstogROUT MP 60** is alkaline and should not in contact with skin and eyes. Avoid inhalation of dust during mixing. Gloves, goggles and dust mask should be worn.

### Additional Information

Estop manufactures and offers a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.

## Important Note

*Estop products are guaranteed against defective materials and manufacture and are sold subject to its standard Terms and Conditions of Sale, copies of which may be obtained on request. Whilst Estop endeavors to ensure that any advice, recommendation, specification or information in may give is accurate and correct, it shall not, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation or information given by it.*