

# EstogROUT MP 70

## High Strength Shrinkage Compensated Grout

### Description

**EstogROUT MP 70** non-shrink grout provides high 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 70** is a blend of Portland cement, graded fillers and chemical additives that impart controlled expansion in the plastic state whilst minimizing water demand. The low water demand ensures high early strength. The graded filler is to assist uniform mixing and produce a consistent grout.

**EstogROUT MP 70 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 70** is suitable for a wide variety of precision application at any consistency from fluid to damp-pack. It is recommended for

- Gas or steam turbines
- Generators
- Presses
- Crane rails
- Milling Machines
- Anchor bolts
- Bedding for bridge bearing Pad
- Formwork Grouting

### Advantages

- Non Shrink (Shrinkage Compensated)
- Proven and predictable performance
- Excellent workability retention even at high ambient temperature
- High bond strength to steel and concrete
- Early strength development even at flow able consistency
- Good fatigue and impact resistance
- Micro silica content enhances strength and durability
- No metallic content to cause staining

### Standards Compliance

- ASTM C940
- BS 1881, Part 118
- BS 6319

### Physical Properties

Water Powder Ratio : 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	> 26	> 55	> 70
Flexural Strength, BS 1881	> 5	> 9	> 11
Time For Expansion	15 mins to 2 hours		
Fresh Weight Density	2170 kg/m <sup>3</sup>		
Young's Modulus	28 kN/mm <sup>2</sup>		
Expansion Characteristics, ASTM C940	0.5-2.0 %		

### Application Instructions

#### Surface Preparation

#### Foundation surface

The substrate surface must be structurally sound, free from oil, grease or any loosely adherent material. Boltholes 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. Provide air pressure relief holes 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 added to a 25kg bag of **EstogROUT MP 70** to achieve the desired consistency is

Consistency	Water	Yield
Trowelable	3.5-3.75litres	12.20 litre
Flowable	4.5-5.0 litres	13.30 litre

### Application

**EstogROUT MP 70** can be placed in thickness up to 100mm in a single pour when used as an under plate grout. For thicker sections, it is necessary to fill out the **EstogROUT MP 70** using the well-graded silt free aggregate to minimize heat build up. Typically, a 10mm aggregate is recommended. Quantities of aggregate added to the EstogROUT MP 70 should not exceed 1 part aggregate to 1 part of **EstogROUT MP 70** by weight.

**EstogROUT MP 70** is pumpable. Contact Estop Technical Department for details of suitable pumping equipment

### Curing

On completion of the grouting operation, all exposed areas, which are not to be cut back, should be thoroughly cured. Apply suitable curing membrane such as Estocure WB or continuous application of water after initial set, for curing purpose.

### Packing & Size

<b>EstogROUT MP 70</b>	25 kg bag
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### 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 70** should be stored on pallets in dry conditions. Under these conditions, the product will have a shelf life of 12 months.

Shelf life may reduce if stored in extreme heat locations.

### Precaution

**EstogROUT MP 70** is alkaline base; it should not be in contact with skin and eyes. Avoid inhalation of dust during mixing. Wear gloves, goggles and dust mask.

### 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.*