

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 in accordance to ASTM C579, 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**
- **ASTM C579**

Physical Properties

Water Powder Ratio : 0.18	1 day (N/mm ²)	7 days (N/mm ²)	28 days (N/mm ²)
Compressive Strength,	> 26	> 55	> 70
Flexural Strength,	> 5	> 9	> 11
Time For Expansion	15 mins to 2 hours		
Fresh Weight Density	2170 kg/m ³		
Young's Modulus	28 kN/mm ²		
Expansion Characteristics,	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

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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

EstogROUT MP 70	25 kg bag
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Technical Support

Denka 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

Denka Construction Solutions Malaysia Sdn Bhd 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.



Denka Construction Solutions Malaysia Sdn Bhd
(591858-U)
No. 18, Jalan Utas 15/7, Seksyen 15,
40200 Shah Alam, Selangor Darul Ehsan, Malaysia
Tel: +603 5510 8810 Fax: +603 5518 8202
www.denka-cs.com

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