

## EstogROUT MP 50

### Multi purpose Shrinkage Compensated Grout

#### Description

**EstogROUT MP 50** 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 50** is a blend of Portland cement, graded fillers and chemical additives that create controlled expansion in the plastic state.

#### Uses

**EstogROUT MP 50** is suitable for a wide variety of precision applications at any consistency from flow able to damp-pack. It is recommended for:-

- General Repair
- Formwork & base plate grouting
- Gap filling for non-shrinkage joints
- Precast elements / Anchor bolts
- Structural repair below or 50 N/mm<sup>2</sup>

#### 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**
- **ASTM C579**

#### Physical Properties

Water Powder Ratio At 0.155	
Compressive Strength, N/mm <sup>2</sup>	
1 day	> 18
7 days	> 35
28 days	> 50
Time For Expansion	15 mins to 2 hours
Fresh Weight Density	2131 kg/m <sup>3</sup>
Expansion Characteristics	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 the joints/gap between formworks with a foam rubber strip or sealant.

##### Mixing Water

The quantity of clean water required to be added to a 25kg bag of **EstogROUT MP 50** to achieve the desired flowable consistency is 4.0 – 4.3 litres.

##### Application

**EstogROUT MP 50** 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 50** should not exceeded ratio of 1:1 by weight.

##### 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 50</b>	25kg bag
------------------------	----------

##### Yield

<b>EstogROUT MP 50</b>	13.00 litres per 25 kg bag
------------------------	----------------------------

##### Coverage

<b>EstogROUT MP 50</b>	10 mm x 1.30 m <sup>2</sup> per 25 kg bag
------------------------	---

201105

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

## Precaution

**EstogROUT MP 50** 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

**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](http://www.denka-cs.com)

## Limitation of Liability

*The information contained in this brochure provides general advice for potential customers for DENKA about the basic properties and characteristics of various DENKA products (hereafter known as "the Product Information"). DENKA makes no warranty or representation as to the entire accuracy or completeness of the Product Information in the brochure. Nothing in this brochure will be deemed to create any express or implied warranty of merchantability, fitness for a particular purpose or infringement of any intellectual property rights. Each user of the Product Information and DENKA products assumes their own responsibility to properly determine the manner and suitability of use of the Product Information and DENKA products in its own operations. The user should exercise proper care in considering the Material Safety Data Sheet, Product Information and any other technical information provided by DENKA including descriptions of the conditions of use, warnings and other cautionary instructions. DENKA reserves the right to change the Product Information from time to time at its discretion and without notice.*