

# ArmGrout M-40

(Formerly known as MYK Grout M-40)

Free flow Non-shrink expansive grout



## TECHNICAL DATA SHEET

### Product Description

ArmGrout M-40 is a free flow non-shrink high strength expansive, controlled expansion grout for machinery foundations. It is based on port land cement with graded aggregated and additives which impart controlled expansion in the plastic state. It effectively transfers all operational loads to the foundation. The non-shrink grout plays a vital role in the structural stability of the construction projects. Their function is three folds to fill the voids between the base plate and concrete foundations completely and permanently, without shrinkage or separating from either to transfer all loads from the base plate to the concrete foundation or to maintain precise alignment

### Uses

- Precision grouting
- Grouting of base plates of turbines, compressors, boiler feed pumps
- Anchoring for a wide range of fixings.
- Masts, anchor bolts and fence posts.

### Features and Benefits

- Non-shrink: basically, a non-shrink material occupies the filled space without shrinkage
- High Strength: High early strength is possible at very early age
- Free flow: it has excellent flow characteristics and has positive expansion during setting
- Chloride free: it is basically a chloride free material and does not affect the steel or foundation bolts.

### Application Methodology

#### Step no.1: Surface Preparation:

The substrate must sound clean and free from Contaminations, all loose particles must be removed. The steel and concrete surfaces must be etched mechanically to enhance the bonding properties

#### Step no.2: Product Mixing:

For best results a mechanically powered grout mixer should be used. When quantities up to 50kg are used, a heavy duty slow speed drill (400-500 rpm) fitted with a paddle is suitable. Larger quantities will require a heavy duty mixer. To enable the grouting operation to be carried out continuously, it is essential that sufficient mixing capacity and labor are available. The use of a grout holding tank with provision to gently agitate the grout may be required.

The water content should be accurately measured into the mixer. The total content of the ArmGrout M-40 bag should be slowly added and continuous mixing should take place for 5 minutes. This will ensure that the grout has a smooth even consistency & No lumps in the mix.

#### Step no.3: Product Application:

Pre soak the concrete surface with lots of clean water before the application is carried. All the surplus water is removed before the grouting application is carried out.

#### Water Powder Ratio:

Consistency W/P

Flow able 0.17 to 0.19

(Up to the flow able consistency and total bleed free mix but maximum. Up to 0.19)

Water required for 25 Kgs bag: 4.75 Lts @ W/P Ratio 0.19

#### Flow Characteristics:

The flow is basically depending on the gap width and the head of the grout and governed by the gap width.

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### Placing:

At 30°C the grout within 15 minutes of mixing to gain the full benefits of the expansion process. Continuous grout flow is essential for large applications. Sufficient grout must be prepared before starting. The time taken to pour a batch must be regulated to the time to prepare the next one.

### Working Time:

Store under covered, in unopened condition, clear of the ground in cool dry condition, protected from frost and excessive draught. When stored in the above conditions to be used with 6 months from the date of manufacture.

### Curing:

The entire exposed surface must be adequately cured with clean water.

### Shuttering:

The form work should be constructed to be leak proof. This can be achieved by using suitable material or by using foam rubber strip or mastic sealant beneath the constructed form work and between joints

### Working Conditions:

Do not place the grout when the ambient temperature is 5 deg Celsius. Use hot water to gain the strength when the temperature is low and cold water when the temperature is high

**Yield:** 13.25 Lts at flow able consistency for 25Kgs of HDPE bags



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### Technical Data

Fresh wet density at flow able consistency	Approx. 2.20
Controlled Expansion in the plastic state	1-4%

### Compressive strength: (BS 1881- part 116: 1983):

Age/ Days	Compressive Strength in N/mm <sup>2</sup>
Flowable W/P 0.19	
1 Day	>10N/mm <sup>2</sup>
3 Days	>20N/mm <sup>2</sup>
7 Days	>30N/mm <sup>2</sup>
28 Days	>40N/mm <sup>2</sup>

**Note:** Cubes Size of the used cubes 70.6mm x 70.6mm x 70.6mm tested at 30°C.

### Flexural Strength at 30°C: BS 4551/1998

Age/ Days	Strength in N/mm <sup>2</sup>
7 days	Approx. 4
28 days	Approx. 6
Tensile Strength @28 days (ASTM C 307)	3.0 N/mm <sup>2</sup> @30°C

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### Packaging

25 Kgs HDPE bags

### Storage and Shelf Life

Store under covered, in unopened condition, clear of the ground in cool dry condition, protected from frost and excessive draught. When stored in the above conditions to be used with 6 months from the date of manufacture.



## TECHNICAL DATA SHEET

### Product Categories Available



### Legal Note

The information, and, in particular, the recommendations relating to the application and end-use of MYK Arment products, are given in good faith based on MYK Arment current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with MYK Arment's recommendations. In practice, the difference in materials, substrates and actual site conditions are such that no warranty in respect of merchant ability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application & purpose. MYK Arment reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local product data sheet for the product concerned, copies of which will be supplied on request.

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