

# MYK GROUT M-40

Free flow Non-shrink expansive grout

# Technical Data Sheet

#### **Product Description:**

MYK Grout 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. There function is three folds to fill the voids between the base plate and concrete foundations completely and permanently, without shrinkage or separating form either to transfer all loads from the base plate to the concrete foundation or to maintain precise alignment

#### **Advantages:**

- 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.

#### **Technical Data:**

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

Age/ Days Compressive Strength in N/mm²

W/P ratio: 0.19 (Flowable) (water curing after one day)

1 Day Minimum 10 3Days Minimum 20 7 days Minimum 30 28 Days Minimum 40

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 Flexural Strength in N/mm²

W/P ratio: 0.19 (Flowable) (water curing after one day)

7 days Approx. 4.8 28 Days Approx. 5.3

Tensile Strength: Approx. 3.0 N/mm2@ 28 days, 30 C temp. Controlled Expansion: 2.54 % in the plastic state Fresh wet density: at flowable consistency: Approx. 2.20

# **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 depends on the gap width and the head of the grout and governed by the gap width

Yield: 13.25 Lts at flowable consistency for 25 Kgs of HDPE bags

# **Application Instructions:**

## **Surface Preparation:**

The substrate must sounds 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

#### 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 labour 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 MYK Grout 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.

#### **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.

#### Placing:

At 30°C the grout with in 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:**

Following mixing the material should be placed with in 15 minutes depending upon the temperature and other conditions for best results.

# Storage & 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.

#### **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

Supply: 25 Kgs HDPE bags

## **Quality Policy:**

The information given in the date sheet is based on the years of experience, and found correct to the best of our knowledge. However the success of the product & its application is dependent on many external factors. We are fully assured of our products quality at the time so despatch. As we are constantly endeavoring to enhance the qualities of our products which may reflect changes it the data sheets. Hence in the event of any doubt on critical parameters it is advisable to consult our technical department

# **Technical Support:**

Technical information regarding Schomburg range of products can be obtained from the technical cell of MYK Schomburg

#### Note:

Information in this technical data sheet is to the best of our knowledge true and accurate. However, such conditions under which our products may be used are beyond our control, recommendations

MYK SCHOMBURG INDIA PVT LTD (An Indo-German JV) 8-2-703/A, 3<sup>rd</sup> Floor, Leela Gopal Towers, Road No. 12, Banjara Hills, Hyderabad -500 034 Tel: +91 40 3040 0000

Email: mykschomburg.com www.mykschomburg.com