

ArmGrout M-80 HES

(Formerly known as MYK GROUT M 80 HES)

Heavy duties, High early strength Non-shrink Flowable Cementitious Grout



TECHNICAL DATA SHEET

Product Description

ArmGrout M-80 HES is a single component pre-weighed factory blended Non-shrink, high early strength free flow grout. It is designed for very high early and final strengths. The flow characteristics allow it to use at various consistencies.

General:

In every Industry there are machines equipments etc which must be firmly connected with foundations. The resulting static and dynamic loads are to be transferred as to guarantee a stable and permanent connection for any period of time. The Non-shrink grout plays a vital role in the structural stability.

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.
- Applications requiring high early compressive strengths and high ultimate compressive strengths.

Features and Benefits

- Excellent flow characteristics
- Low creep characteristics under sustained loading
- High early Compressive, Tensile and Flexural strengths
- Non-shrink and hence ensures complete surface contact and bond
- Suitable for a wide range of loading situations
- Does not shrink or over expand
- Chloride and iron free

Application Methodology

Method of use:

All kinds of contaminations such as oil, grease, concrete slurry etc. must be removed from the surface. If the concrete surface is defective it must be cut open to a sound base. Bolt holes or fixing pockets must be blown clean of any dirt or debris

Form work:

Due to the free flow nature of the grout the form work should be leak proof

Mixing:

The reweighed material ArmGrout M-80 HES is to be mixed with heavy duty slow speed drilling machine fitted with a mixing paddle. The components should be mixed in a suitably sized mixing vessel. The mixing should be about 3 to 5 minutes slowly until a completely homogeneous mix is obtained

Placing:

Ensure that the grout is placed within its pot life. Continuous grout flow is essential; Pouring should be from one side of the void to eliminate air entrapment. The hydrostatic head must be maintained at all times so that a continuous grout front is achieved

Flow characteristics:

Flow characteristics: The maximum distance of flow is governed by the gap thickness, the head of the grout applied and the ambient temperature

Curing:

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

Yield: 12.5 Lts for 25 kg one pack qty.

Limitations:

Grout should not be placed in any unrestrained situations. Failure to comply may lead to crack development in the grout At temperatures below 25°C the cure rate may be slow, but will go to completion provided the temperature remains above 5°C

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Technical Data

Pot Life @ 27°C temp: 15 minutes

Compressive strength: @30°C

W/P ratio: approx.0.14 to 0.15 (Flowable),
(Water curing after one day)

| Age Days | Compressive Strength (ASTM C 109) |
|-------------------------|-----------------------------------|
| Flowable W/P 0.15 | |
| 12 Hrs @30°C air curing | >15N/mm ² |
| 1 Day @30°C air curing | >40N/mm ² |
| 3 Days @30°C | >60N/mm ² |
| 7 Days @30°C | >70N/mm ² |
| 28 Days @30°C | >80N/mm ² |

Note: Size of the cubes used 70.6mm*70.6mm*70.6mm, tested at 30°C.@ 60% relative humidity during air curing .

| | |
|---|----------------------|
| Flexural Strength@ 28 days at 30°C (ASTM C 348) | 10N/mm ² |
| Tensile Strength @ 28 days at 30°C (ASTM C 307) | 3.5N/mm ² |
| Controlled Expansion: (in the plastic state) | 1 – 4.0% |

Packaging

ArmGrout M-80 HES is supplied in 25kg HDPE BAG.

Health & Safety

ArmGrout M-80 HES should be applied with gloves and care should be taken to see that it does not fall on skin or eyes. Splashes on to eyes have to be immediately washed with plenty of clean water and medical advice has to be taken

Storage & Shelf Life

6 Months if stored in cool dry place, unopened condition and under shaded area.

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.