

# ArmGrout EP-78

(Formerly known as MYK GROUT EP 750)

(High Strength Epoxy Grout)



## TECHNICAL DATA SHEET

### Product Description

ArmGrout EP-78 is a free-flowing High Strength Epoxy Resin Grout. ArmGrout EP-78 is an Epoxy resin grout designed for grouting of gap widths of 10 to 75 mm. It is supplied as a three-component system consisting of base, hardener and specially graded aggregates. The components are supplied in the correct mix proportions designed for whole pack mixing on site.

#### Uses

- ArmGrout EP-78 is a free-flowing Grout, used in applications where physical properties and chemical resistance of the cured Grout is of utmost importance. It is suitable for a wide range of applications which includes:
- Under plate grouting to structural elements.
- Base plate grouting in dynamic load situations such as Turbines and other reciprocating machinery.
- Heavy industrial applications in steel works, refineries Chemical plants and electroplating works.
- High strength filling for Structural systems.
- Rail track applications, to support heavy cranes, or on Transporter rails.

#### Features and Benefits

**Excellent durability:** High compressive, flexural and tensile Strengths ensure a long working life.

**Cost effective:** High early strength gain reduces the minimum Downtime for early commissioning of plant.

**User friendly:** Simple, pre- packed, at site mixing to ensure optimum Performance characteristics

**Versatile:** Suitable for a wide range of loading situations including repetitive Dynamic loads.

**Excellent service performance:** Non-shrink capability Ensures full surface to surface contact.

### Application Methodology

#### Under plate grouting:

The unrestrained surface area of the grout must be kept to a Minimum. Generally, the gap between the perimeter formwork and the plate edge should not exceed 75 mm on the pouring side and 25 mm on the opposite side. Formwork on the flank sides Suggested that, for temperatures above 30°C, the following should be kept tight to the plate edge. Air pressure relief holes should be provided to allow venting of any isolated high spots.

#### Formwork:

The formwork should be constructed to be leak proof as ArmGrout EP-78 is a free flow grout. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed formwork and between joints. For free flow grout conditions, it is essential to provide a hydrostatic head of grout. To achieve this feeding hopper should be used – please consult your local MYK Arment office for more details.

#### Foundation surface:

This must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has laitance, it must be cut back to a sound base. Bolt holes or fixing pockets must be blown clean of any dirt or debris.

#### Mixing:

The entire contents of the hardener can should be poured into the base container and mixed until homogeneous. Place the Mixed base and hardener into suitable (a container with capacity of 15 to 20 liter) forced action mixer making sure that the entire volume is poured in. Add the aggregate and mix for 2-3 minutes or until uniform color is achieved. Once mixed, the material must be used within the specified pot life (see under Properties).

After this time, unused material will have stiffened and should be discarded

Note: Immediately prior to placement, all surfaces must be dry and free from moisture.

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### Base plate:

If delay is likely before placing steel base plates, it is recommended that the underside and edge are coated with FloArm Primer EP to prevent rust formation and ensure bonding with the grout. All metal surfaces should be cleaned to a bright finish in accordance with Swedish Standard SA 2½ or equal. FloArm Primer EP can be applied directly onto newly cleaned steel surfaces even if they are damp.

### Hot Weather Working:

Whilst the performance ArmGrout EP-78 at elevated temperatures is assured, application under such conditions can sometimes be difficult. It is therefore guidelines are used:

- A. Store unmixed materials in a cool (preferably temperature Controlled) environment, voiding exposure to direct sunlight.
- B. Keep mixing and placing equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- C. Try to eliminate application in the middle of the day, and certainly avoid application in direct sunlight.
- D. Ensure that there are sufficient operative's available to complete applications within the material's pot life.

### Placing:

Ensure that the grout can be placed within its pot life. Continuous grout flow is essential. Sufficient grout must be Available prior to starting and the time taken to pour a batch must be regulated to the time taken to prepare the next one. 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.

### Cleaning:

All tools and equipment should be cleaned immediately after use with a suitable

### Limitations:

Grouts should not be placed in any unrestrained situation, i.e. Base plate plinths, etc. Failure to comply may lead to crack development in the grout.

### Technical Data

Mixed density @ 27°C	Approx 1.98 gm/cc
Pot life	30 minutes @ 20°C 20 minutes @ 27°C
Application temperature	Min.12 to Maximum 30°C
Compressive strength @ 30°C (BS6319 Part2: 1983) 1 day 3 days 7 days	Approx 50 N/mm2 Approx 65 N/mm2 Approx 78 N/mm2
Tensile strength:7 days (BS6319 Part 7: 1983)	14 N/mm2
Flexural strength :7 days (BS 6319 Part 3: 1983)	24 N/mm2
Maximum flow distance for a head of 100mm @30°C	
35 mm gap	2000 mm
70 mm gap	3200 mm

### Yield:

Approx. 9.5 Liter volume per 19 kg pack

## Grout & Anchors

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### Packaging

ArmGrout EP-78 is supplied in: 19 Kg pack

### Shelf Life

12 months from date of production if stored properly in original unopened, sealed and undamaged packaging, in dry conditions at temperatures between +10°C and +35°C. Protect from direct sunshine.

### Health & Safety

ArmGrout EP-78 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.

### 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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