

ArmGrout EP-76 LE

(Formerly known as MYK Grout EP 760 LE)

Low Exothermic, Epoxy Resin Free Flow Grout



TECHNICAL DATA SHEET

Product Description

ArmGrout EP-76 LE is a three-component solvent free system consisting of Resin, Hardener and specially graded inert fillers. ArmGrout EP-76 LE is a low exothermic material to suit for injection grouting where long working time is needed, for grouting gap widths up to 175 mm and for grouting at high ambient temperatures up to 50°C

Uses

- Under plate grouting to structural elements.
- Base plate grouting in dynamic load situations such as Turbines and other reciprocating machinery.
- Heavy industrial applications in steelworks, refineries Chemical plants and electroplating works.
- High strength filling for structural systems.

Features and Benefits

- Low creep characteristics under sustained loading Resistant to repetitive dynamic loads.
- Non-shrink and hence ensures complete surface contact and bond.
- Excellent flow ability which is essential for an injection grouting system
- High compressive, tensile and flexural strengths. Withstands a wide range of chemicals.

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:

ArmGrout EP-76 LE is a free flow grout; the form work constructed must be leak proof. This can be achieved by using foam rubber strip or mastic sealant beneath the constructed form work and between joints. For free flow grout conditions, it is essential to provide a hydrostatic head of grout.

Typical On-Plate Shutter System: Removable Hopper:

For larger pours the grout may be hand placed or pumped into a removable hopper (trough) Foundation surface this must be free from oil, grease, or any loosely adherent material. If the concrete surface is defective or has latencies must be cut back to a sound base. Bolt holes or fixing pockets must be blown clean of any dirt or debris.

Base plate:

If delay is likely before placing steel base plates, it is recommended that the underside and edges are coated with FloArm Primer EP to prevent rust formation. 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.

Mixing:

Pour all the contents of the hardener pack into the base container. Mix using a slow speed power mixer until homogeneous. Pour all the resultant liquid into a container with a capacity of 20 - 25 liters. Add all the filler provided and mix using a slow speed power mixer for two minutes or until a uniform color is achieved in the grout.

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.

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Flow Characteristics:

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

Cleaning:

All tools and equipment should be cleaned immediately after use with FloArm Clean PU Spillages should be absorbed with sand or sawdust and disposed in accordance with local regulation.

Whilst the performance of ArmGrout EP-76 LE at low temperatures is assured, application under such conditions can sometimes be difficult. It is therefore suggested that, for temperatures below 25°C, the following guidelines are adopted:

- i. Store unmixed materials in a warm (preferably temperature controlled) environment.
- ii. Keep mixing and placing equipment warm, arranging protection if necessary. It is especially important to keep warm those surfaces of the equipment which will come into direct contact with the material itself.
- iii. Try to eliminate application in the coldest time of the day, and certainly avoid application at night.
- iv. Minimum temperature of the mixed material to be 25°C, and loading shall only be allowed 96 hours after pouring.

Technical Data

Mix Density	1940 kg/m ³
Pot life	40 min at 40°C 90 min at 30°C 120 min at 20°C
Compressive strength @ 30°C (BS6319 Part2: 1983) 3 days 7 days	65 N/mm ² 76 N/mm ²
Tensile strength (BS6319 Part 7: 1983)	10N/mm ² @30°C 7 days
Flexural strength (BS 6319 Part 3: 1983)	27N/mm ² @30°C 7 days

Chemical Resistance:

Oil, grease, fats, most chemicals, mild acids and alkali, fresh and sea water.

Note: Consult the local MYK Arment Technical cell when exposure to solvents or concentrated chemicals is anticipated.

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. At temperatures below 25°C the cure rate may be slow, but will go to completion provided the temperature remains above 5°C.- The cured grout, which is resistant to frost and sub-zero temperatures, is most suited for ambient temperatures in the range of 25° to 50°C. ArmGrout EP-76 LE grouting should not be carried out at temperatures below 20°C.

In Service:

ArmGrout EP-76 LE is most suited for temperatures in the range 20° to 50°C.

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Packaging

ArmGrout EP-76 LE: 19.5 kg packs
(by volume: approx. 10 litter)
(3 component packs contain base resin, hardener and fillers.)

Storage and Shelf Life

ArmGrout EP-76 LE has a shelf life of 12 months if kept in dry Conditions at 20°C under shaded area. If stored at high temperatures the shelf life will be reduced.

Health & Safety

ArmGrout EP-76 LE contains resins which may cause sensitization by skin contact. Avoid contact with skin and eyes and inhalation of vapor. Wear suitable protective clothing, gloves and eye/face protection. Barrier creams provide additional skin protection. Should accidental skin contact occur, remove immediately with a resin removing cream, followed by soap and water. Do not use solvent. In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice. If swallowed seek medical attention immediately do not induce vomiting.

For additional information see relevant Material Safety 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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