

## EAMIGROUT C

### Non Shrink, Free Flow Cementitious Grout

#### Product Description

EAMIGROUT C is specially designed, prepacked, ready for use, non shrink and non metallic cementitious grout, with non staining, high strength, high fluidity characteristics. It is formulated as a special natural aggregate system with shrinkage compensating binder. EAMIGROUT C provides consistent and exact performance capabilities.

#### Typical Applications

- Grouting under equipment, machinery. column base plates and crane rails.
- Grouting under general structure supports.
- Anchoring precast wall panels, beams and columns.
- Repair of damaged concrete where a highly flowable replacement material is required.
- Combined with fine aggregate to cast narrow structures.

#### Product Features

- Shrinkage compensation which provides a maximum bearing surface for supports.
- Free from chlorides and aggressive materials that may lead to corrosion of steel based structures.
- No bleeding and no segregating at a high fluid consistency.
- High strength for maximum load bearing.
- Non shrink mortar with similar appearance to concrete.
- Highly fluid and extremely placeable for easy field use.
- Rapid strength gain to minimizing the non working time for machinery.
- Does not contain corrosive ingredient or accelerators.

#### Standards

EAMIGROUT C meets the requirements of ASTM C 1107, Grade A .

### Technical Properties

#### Compressive Strength

Tested according to ASTM C-109 at a flowable and trowellable consistency; typical results are shown in Table "1".

#### Consistency

The water addition of: 3.5 liter / 25kg.bag will result in a trowellable consistency. 3.75 liters per 25 kg .bag will result in a flowable consistency.

#### Volume Change (Unrestrained) Restrain Plastic Expansion

Tested according to ASTM C-827+ (1 - 4 % ) by volume  
Pressure is around 0.004 N/mm<sup>2</sup>.The internal pressure starts after 20 minutes and ends after 2 hours.

#### Density

Fresh wet density is 2100±100 kg/m<sup>3</sup>measured at flowable consistency 28 KN/mm<sup>2</sup>.

#### Young's modulus

#### Compressive Strength (ASTM C-942)

<u>After 1 day</u>	25±5 N/mm <sup>2</sup>	(Plastic Consistency)	25±5 N/mm <sup>2</sup>	(Flowable Consistency)
<u>After 7 days</u>	45±5 N/mm <sup>2</sup>	(Plastic Consistency)	35±5 N/mm <sup>2</sup>	(Flowable Consistency)
<u>After 14 days</u>	55±5 N/mm <sup>2</sup>	(Plastic Consistency)	45±5 N/mm <sup>2</sup>	(Flowable Consistency)
<u>After 28 days</u>	60±5 N/mm <sup>2</sup>	(Plastic Consistency)	55±5 N/mm <sup>2</sup>	(Flowable Consistency)

#### Flexural Strength (ASTM C-78)

After 28 days 10.0 N/mm<sup>2</sup>

#### Flow

#### Gap

#### Head

#### Distance

20 mm  
30 mm  
40 mm  
50 mm

100 mm  
100 mm  
100 mm  
100 mm

900 mm  
6400 mm  
2500 mm  
2900 mm

## Guide for Application

### Surface Preparation

Careful preparation is a must for a successful grouting operation. Concrete surfaces and base plates to be grouted should be clean, free from rust, grease, oil & cement laitance. Determine work schedule and method of placing grout. Prepare properly strengthened shutters that are completely impervious to retain the grout. Saturate the area to be grouted with water until it is uniformly damp. Remove excess water just before placing the grout. On the placing side, allow a maximum clearance of 150 mm for entry & 150 mm minimum grout head. Slope the form to assist in grout movement & to prevent trapping air. On the other sides, allow maximum up to 50 mm horizontal clearance & 25 mm vertical above the bottom of the base plate. When forming the shutters, provide for venting holes if necessary to avoid entrapment of air.

### Mixing

Use from 3 to 4 Liters of potable water to 25kg. bag depending on consistency needed. Do not add sand or cement to the grout since this action will change its performance characteristics. When filling large volumes, it is advisable to fill out EAMIGROUT C with well graded silt free aggregates. First add the required quantity of water and then EAMIGROUT C dry powder as the mixer operates. Mix for 2 to 3 minutes, then place the grout. For small quantities use paddle mixing drill. For large quantities use paddle type mortar mixer. Do not allow hand mixing. Do not mix any more grout at one time than can be placed in 20 minutes.

### Placing

Place all grout from one side only to assure complete filling of the space being grouted. A rod or chain may be used if necessary in placement. Keep the head box filled to provide a constant head of grout and to assure a continuous flow into place. Where large volumes have to be placed EAMIGROUT C may be pumped. EAMIGROUT C works best at temp between 5°C-35°C. Arrangements must be made when grouting is below 5°C & over 35°C.

### Curing

As soon as grout placement is completed, wet cure all exposed areas with wet rags or use EAMICURE AR. Forms may be removed as soon as the grout has set sufficiently. Unrestrained areas should be troweled after two hours from mixing.

### Yield

The approximate yield per 25 kg bag at each consistency is 12 liter for trowelable and 13.25 liter for flowable.

### Packaging

EAMIGROUT C is supplied in 25kg bag.

### Storage

EAMIGROUT C should be stored in non humid shaded areas.

### Shelf Life

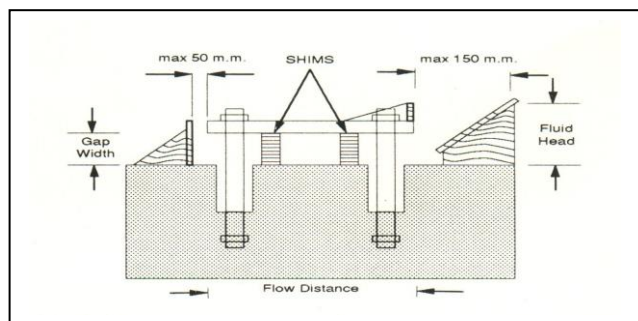
One year when stored in its original unopened package.

### Cleaning

Splashes of EAMIGROUT C can be removed with water

### Health and safety

- EAMIGROUT C is non flammable and non toxic, it is alkaline in nature
- Any splashes on skin should be washed with water
- Seek medical assistance in case of contact with eyes, after washing it with running water



## EAMIC TRETOL

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