

## E.M.GROUT-CE CONTROLLED EXPANSION CEMENT BASED GROUTING MORTAR

### DESCRIPTION

E.M.GROUT-CE is a controlled expansion cementitious ready-mix grout with 60 MPa compressive strength. Due to the special combination of E.M.GROUT-CE, It is useful for filling and grouting of base plates in steel frame buildings and installation of heavy machinery. It meets the requirements of the following standard: ASTM C1107

### ADVANTAGES

- Suitable for static loads
- No hardening crack
- Non-shrinkage
- Controlled expansion
- Premixed grout requires only the addition of mixing water on site
- Excellent flowability
- High early strength and fast load bearing capacity

### APPLICATION

- Filling and grouting of base plates in steel structures
- Installation of heavy machinery
- Installation of precast columns
- Anchor bolts

### SURFACE PREPARATION

Surfaces should be clean sound and free from oil, grease, laitance and loose particles. Metal surfaces should also be clean and free of rust, oil, grease and contaminants. The prepared areas should be flooded with water prior to the placement of E.M.GROUT-CE before the grout is placed. All free water should be released from the area to be grouted. There should be NO standing water present when the grout is placed.

### MIXING

E.M.GROUT-CE should be mixed using a suitable mixer. For flowable consistency use a band drill and paddle with a speed of <400 R.P.M. For large works use a high shear vane grout mixer. (Drum mixers are not recommended).

The entire contents of the bag should be added to the pre-measured (2.75-3.50 litres) water while mixing.

DO NOT add more than the maximum water content.



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ISO / IEC 17025



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**APPLICATION**

Ensure the substrate is prepared according to the manufactures recommendations. NO free water should be present in the area to be grouted. Ensure that there are sufficient air release holes for entrained air to escape.

Mortar should be continuously poured, from one side only, until the gap is completely filled. Maintain continuous head of grout when pouring.

**CURING**

It is necessary to cure exposed areas of grout with humidified method for at least 7 days.

**PHYSICAL AND CHEMICAL PROPERTIES**

Physical state: Powder

Color: Gray

Water by weight of grout: 11.0 -14.0 %

Specific gravity of fresh mortar:  $2.30 \pm 0.1 \text{ g/cm}^3$

Chloride ion: No chloride content

**STORAGE**

Shelf life: 1 year in the original package

Storage condition: should be protected from direct sunlight and moisture. Keep bag in the temperature range between  $+10^\circ\text{C}$  and  $+30^\circ\text{C}$ .

Packing: 25 kg bag

**HEALTH AND SAFETY**

This product does not contain any substances hazardous to human health and the environment. However, it should not be swallowed and contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water. E.M.GROUT-CE is not flammable.

For further information, refer to the material safety data sheet. MSDS is available at ABADGARAN website.

**TECHNICAL SERVICE**

The ABADGARAN INTERNATIONAL GROUP Technical Department is available to assist you in the correct use of our products and its resources are at your disposal entirely without obligation.

All data presented in this technical datasheet are based on our last researches in ABADGARAN CONSTRUCTION CHEMICALS laboratories and are just as a guide for choosing appropriate material. Therefore, users should conduct a sufficient investigation to establish the suitability and conformity of any product for intended uses.



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