

# CERMIGROUT

## CEMENT BASED, FLOWABLE, HIGH-STRENGTH GROUT MORTAR



Grey



- **High compressive strength and adhesion strength**
- **Self-compacting with its highly fluid structure**
- **Non-shrinking and cracking**
- **Quick strength gainer, fiber reinforced**
- **Water and frost resistant**
- **Fast and easy application**

## PRODUCT INFORMATION

### WHERE TO USE

- In the assembly and fixing of steel, prefabricated concrete structural elements
- Machine and crane mounting bases
- Generator, compressor, pump etc. for fixing industrial machines
- Suitable for use between 10-70 mm at one time, structural grout mortar that can be used indoors and outdoors.

### GENERAL FEATURES

<b>Structure</b>	: Cement-based grey powder and fiber reinforced with polymer additive.
<b>Colour</b>	: Grey
<b>Dry Density</b>	: $1.50 \pm 0.10 \text{ gr/cm}^3$
<b>Mortar Density</b>	: $2.20 \pm 0.10 \text{ gr/cm}^3$

### TECHNICAL CHARACTERISTICS

<b>Compressive Strength</b>	: $\geq 30 \text{ MPa}$ in 1 day, $\geq 50 \text{ MPa}$ in 28 days
<b>Flexural Strength</b>	: $\geq 7 \text{ MPa}$

28 days (at 23 °C and RH 60%)

(\*)These values are obtained as a result of laboratory experiments and are the performance values of the finished applications after 28 days. These values may change depending on site conditions.

### STANDARDS AND DOCUMENTS

- EN 1504-3
- CE
- Public works pos no : 10.300.2073

### PACKAGING

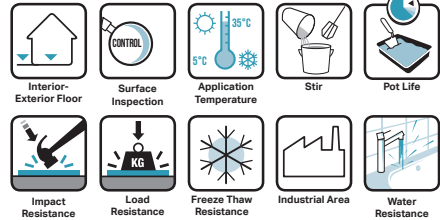
- 25 kg kraft bags (48 pieces on a pallet / 1200 kg)

### CONSUMPTION

- Approximately  $2,2-2,4 \text{ kg/m}^2$  (1 mm thickness)

### STORAGE

- Maximum 10 kraft bags can be stacked on top of each other.
- It should be stored in a moisture-free and dry warehouse which is -well-protected against atmospheric conditions weather conditions.
- Shelf life is 6 months under appropriate storage conditions.
- Opened packages should be kept tightly closed.



## APPLICATION

### APPLICATION PROCEDURE

**Mixing ratio** : 3,75-4,25 lt water for 25 kg bag

**Application thickness** : 10-70 mm

**Pot life** : 30 min.

**Application temperature** : +5 °C ; +35 °C

**Waiting time between layers** : 3 hours

**Set time (for pedestrian traffic)** : Min. 24 hours

### SUBSTRATE PREPARATION

- Application surfaces must be free from dust, dirt, oil, etc. and dry, smooth and sound.
- The application mould should be fixed, impermeable and totally clean.
- The surface should be moistened before the application, and if there are puddles, they should be removed from the surface

### APPLICATION

- 25 kg bag of material should be slowly poured into a container containing 3,75-4,25liters of clean water (15-17%) and mixed with a low-speed (400 rpm) hand mixer for 3-4 minutes until it reaches a homogeneous consistency.
- The mortar should be rested for 2-3 minutes and then mixed again before application.
- **CERMIGROUT**, which is in fluid construction, should be poured from one side of the preliminarily prepared mould without interruption. In that manner, air compression shall be avoided.
- In order to ensure that all the gaps inside the mould are filled, a steel wire should be bent to form a hook and settlement should be duly performed. Vibrators should not be used in any manner.
- Times given in application information and steps may be shortened or extended under different environmental conditions (low/high temperature, humidity, wind, etc.).
- After application, the surface should be kept continuously moist or cured by appropriate methods (e.g., using CermiCure Curing Material) to prevent the loss of the necessary water within the product due to external factors, ensuring proper hydration and strength development.



### RECOMMENDATIONS

- Do not apply it on frost hazardous or overheated surfaces, under direct sunlight and in windy weather.
- If petrification is detected after opening the bags, the product should not be used.
- The product should be used within the life of the container after mixing.
- No foreign materials such as lime, cement or gypsum should be added into the mortar.
- Amount of water indicated on the bag should be observed.
- Do not apply on unsound surfaces.
- Protect the applied surfaces against direct sunlight, rain and frost for at least 24 hours.
- It is recommended to use a pump in large volume applications.
- Large surfaces open to external weather conditions should be protected for at least 48 hours and moistened at intervals.

### SAFETY INSTRUCTIONS

- As it is cement based, do not inhale and avoid of its contact with skin and eyes.
- It is recommended to use appropriate work equipment (gloves, goggles, mask, knee pads, etc.) during application of the product.
- For more detailed information please read the Material Safety Data Sheet (MSDS)

**Note:** Technical values and application instructions are valid under ambient temperature of 23 °C with relative humidity 50% and they are the results of our tests and experience in accordance with international standards. Our company is not responsible for any errors that may occur if the instructions and recommendations specified in the technical data sheets are not followed.

**CERMIX**

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