

## Cement Based Grout Mortar

### Description

It's a cement based, polymer reinforced, highly fluid, non-shrinkable, high strength, self-propagating grout mortar.

### EN 1504-3 CE Certificate.

Ministry of Environment and Urban Planning Pos.  
No: 04.613/3c

### Areas of Usage

- \*Mounting details of precast concrete constructions,
- \*Turbines, Pumps, compressor and generators in power plants,
- \*Filling between industrial machine and steel column bases and mounting plate,
- \*It is used for head of curtain and column manufacturing.

### Features of Product

- \*It's only mixed with water, poured into mould and easy to apply.
- \*It has high compressive strength.
- \*It is non-shrink
- \*It is fluid.
- \*It provides strong adherence to concrete and reinforcement.
- \*It is highly impermeable.
- \*It is resistant to freeze-thaw cycle.

### Application Procedure

#### Machine and Basement Preparation

Before machine is mounted, loose and defective areas should be cleaned and the surfaces which grout mortar to be applied should be roughened. Foreign matters such as oil and dust which may affect performance of the grout mortar on which surface is applied should be removed. Bleed ports must be drilled on base plate. The machine should be mounted and its balance and position should be adjusted. This position should never be changed. If block gages are removed, they should be lubricated little in order grout mortar not to be adhered. After the machine is mounted and adjustments are done, basement concrete should be saturated with water at least 6 hours before grout mortar is applied.

### Preparation of Mould

The moulds should be made of solid material which do not leak and absorb free water and it should be mounted to resist the strength that it faces. There should be a 5 cm filling gap between base plate and the mould which grout mortar is poured. In order to spread the grout mortar, mould height should also be considered on pouring side.

### Mixing

Recommended amount of clean water is poured into a mixture bucket. **eile Grout 50 C** is added into the bucket slowly. It is mixed by a low speed mixer for 3-4 minutes until a homogeneous mixture is obtained. After material is allowed to stand for 4-5 minutes, it's mixed again for 30 seconds and it is ready to use.

### Mixture Ratios

For 25 kg' sack: 3,5-4 l water

For 1 kg powder product: 0,140-0,160 l water

Mixture density: 1,9-2,1 gr/ cm<sup>3</sup>

### Application Method

If there are different machines operating around the machine of which base filling is done, it should be determined to what extent their vibrations are transmitted. If necessary, operating machines should be stopped until grout mortar is set (at 20°C for 10-12 hours at least). The grouting should be consistent and no vibrator should be used. It's enough to pour from one side in order to remove air gaps. Two sided pouring must not be done. The grouting should fill between base plate and base fully. The exposed surfaces should be protected against dehydration for 24 hours at least. It's recommended that application is done between +5°C - +30°C.

### Points to take into consideration

- \*In areas open to atmosphere, especially in hot, dry or windy areas, the special curing materials should be protected against rapid evaporation for 24-48 hours.
- \*The material should be used at 20°C within 30 minutes.
- \*The ambient and floor temperature should be within below mentioned values since application floor and ambient influence hydration reaction of the cement.
- \*The application should be done in 10 mm minimum and 40 mm maximum. For thicker applications, the material should be applied as 2-3 coats or it should be applied as one coat by adding clean aggregate into grout mortar.
- \*When material is spreading no vibrator should be used.

## Technical Specifications

<b>Structure of the Material</b>	Mineral Fillers and Polymer Reinforced Special Cement.
<b>Colour</b>	Grey
<b>Compressive Strength</b>	> 55 N/mm <sup>2</sup> ( 28 days )
<b>Bending Strength</b>	> 8 N/mm <sup>2</sup> ( 28 days )
<b>Adhesive Bond Strength</b>	> 2 N/mm <sup>2</sup> ( 28 days )
<b>Application Thickness</b>	min. 10 mm max. 100 mm
<b>Service Temperature</b>	-20 °C + 400 °C
<b>Temperature of Application Floor</b>	+5 °C - +30 °C
<b>Exposure Time</b>	30 min (+20 °C )
<b>Through dry time</b>	24 hrs (+20 °C )
<b>Full Curing Time</b>	28 days

\* Typical values have been obtained as a result of experiments done at +23°C, 50% relative humidity, 4x4x16 cm mortar prism. The values may change due to the difference in site ambient. High temperatures shorten and low temperatures extend the durations.

## Consumption

17-18 kg/m<sup>2</sup> for 10 mm thickness.

## Cleaning of the Tools

After application, the tools and equipment used should be cleaned with water. After the material is hardened, it can only be cleaned mechanically.

## Package

25 kg kraft sack

## Storage

It should be stored in unopened original package in a cool and dry place and stack maximum 10 packages on top of each other.

## Shelf Life

Shelf life is 12 months from production date in storage conditions

<b>CE</b> <b>1020</b>
POMZA EKSPORT SAN. TİC. AŞ.-EİLE Ankara Asfaltı Belkahve Mevkii 476/A Kavaklıdere Köyü-Bornova-İzmir/ Türkiye 12 TS EN 1504- 3 CONSTRUCTURAL REPAIR MORTAR
Compressive Strength: R4 Reaction to Fire Class: A1

**Safety Recommendations:** Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

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