

# Grout CB 484

Yapı Kimyasalları > Grout Harçları > Çimento Esaslılar

Grout CB 484 is a single-component, plastic-form, non-shrink grouting mortar that eliminates shrinkage by expanding within itself, providing high initial and final strengths, thixotropic, cement-based, and ready to use.

## ■ Fields of Application

- Filling core and tie-rod holes
- High-strength repairs
- Repairing prefabricated structural elements
- Repairing wide cracks, segregation, and cavities
- Filling cold joint gaps between old and new concrete
- Filling gaps around plumbing pipes and elements

## ■ Advantages

- It is prepared by mixing with water only
- Provides a low water/cement ratio and a workable plastic consistency
- In addition to high final strengths, it provides rapid strength gain
- Does not crack or shrink due to its adjustable swelling ability
- Provides excellent adhesion to steel and concrete
- By adjusting the water content, both plastic and fluid consistencies can be achieved
- It is resistant to fire, impacts, and vibrations
- Can be easily applied in both indoor and outdoor environments

## ■ Preparation of Substrate

The surface to be applied must be free of oil, dirt, rust, and all loose materials; if necessary, the surfaces should be cleaned with a water jet. The surface to be applied must have sufficient strength. Cleaned surfaces must be moistened, and direct sunlight should be avoided during application. Formwork should be done in areas where leaks might occur. Formwork should be done carefully, and vibration should not be applied during the formwork process. It should not be applied to frozen surfaces.

## ■ Preparation of Mortar

Approximately 5 liters of water is placed in a clean container. Preferably using a low-speed drill, half of a 25 kg bag is slowly added. After mixing a little, the remaining half of the bag is added and mixing continues until lumps disappear and homogeneity is achieved. Depending on the ambient temperature and humidity, the amount of water can be adjusted. In very hot weather, the water amount can be slightly increased. However, it should be remembered that increasing the water reduces the strength. After allowing the mortar to rest for 5 minutes, application can begin. No additives or similar chemicals should be added to the prepared mortar.

## ■ Application

Once the mixture is ready, application should begin immediately. To benefit from the product's maximum expansion properties, the mortar should be used within 15-20 minutes. The mortar can be applied with a trowel at thicknesses between 10-30 mm at each stage.

## ■ Consumption Amount

The product consumption is 2.00 kg/l.

## ■ Points to Consider

- Care must be taken with the amount of water to be mixed.
- No foreign materials (lime, cement, gypsum, etc.) should be added to the prepared mortar.
- Mortar that has exceeded its working time should not be reused by mixing with water or dry mortar.
- It is recommended to carry out the application at temperatures between +5°C and +35°C.
- It should not be applied to frozen surfaces. Do not apply under direct sunlight.

## ■ Packaging

In 25 kg PE-reinforced kraft bags.

## ■ Storage Life

At least 12 months when stored in a closed package and protected from frost.



## TECHNICAL DATAS

<b>Structure of the Material</b>	Mineral fillings, polymer reinforced additives and cement.
<b>Appearance</b>	Grey colored powder
<b>Powder Unit Volume Weight</b>	~ 1,45 kg/l
<b>Wet Unit Weight</b>	~ 2,30 kg/l
<b>Application Temperature</b>	(+5°C) - (+35°C)
<b>Pot Life</b>	45 dk
<b>Application Thickness</b>	10-30 mm
<b>Compressive Strength</b>	> 20 N/mm <sup>2</sup> (1st day) > 40 N/mm <sup>2</sup> (7th day) > 65 N/mm <sup>2</sup> (28th day)
<b>Capillary Water Absorption</b>	≤ 0,1 kg/m <sup>2</sup> h <sup>0,5</sup>
<b>Shelf Life</b>	12 months in unopened packaging and stored in a dry environment.
<b>Packaging</b>	25 kg PE-reinforced kraft bag