

# Grout Rapid CB 484

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Grout CB 484 Rapid is a single-component, fluid-form, non-shrink grouting mortar that eliminates shrinkage through internal expansion, provides very rapid strength gain, and is a ready-to-use, cement-based non-shrink grouting mortar.

## ■ Fields of Application

- In areas that need to be opened to traffic quickly
- In manhole repairs
- For mounting traffic signs
- For filling voids and cavities

## ■ Advantages

- Setting begins 4-5 minutes after application and completes in 20-25 minutes
- Can be opened to traffic after 2-3 hours
- Speeds up labor
- Fills voids due to its fluidity and can be easily applied with a pump
- Provides strength and setting without shrinkage
- Resistant to oil and water penetration due to its high density

## ■ 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 must have sufficient strength before application. 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 3.5 - 4 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 for a while, the remaining half of the bag is added, and mixing continues until lumps disappear and the mixture becomes homogeneous. The amount of water can be adjusted based on ambient temperature and humidity. In very hot weather, a slight increase in water may be necessary, but it should be noted that increasing the water will reduce the strength. The mortar can be applied immediately after preparation.

## ■ Application

Once the mixture is ready, it should be applied immediately. Considering the product's rapid setting properties, it should be used within 2-3 minutes. The mortar should be poured in thicknesses between 10-40 mm at each stage. The placement process should be done with a thin rod, not by vibration. Air bubbles should not be allowed to remain in the product.

## ■ Consumption Amount

The product consumption is 2.00 kg/l.

## ■ Points to Consider

- The amount of water to be mixed must be handled with great precision.
- 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.
- Application is recommended 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

12 months when stored in unopened original packaging, in cool and dry environments, 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>	5 min
<b>Application Thickness</b>	10-40 mm
<b>Compressive Strength</b>	> 14 N/mm <sup>2</sup> (1 hour) > 65 N/mm <sup>2</sup> (28 days)
<b>Traffic Opening</b>	2-3 hours
<b>Shelf Life</b>	12 months in unopened packaging and stored in a dry environment.
<b>Packaging</b>	25 kg PE-reinforced kraft bag