

Mortars

C-GROUT 500

Non Shrink Grouting Mortar



C-GROUT PRODUCTS are divided to three grades according to aggregate size of each one. This technical data sheet is for product **C-GROUT 500**

General Properties:

- Cement base, free of metal, dry powder used for grouting . Just add water as specified. Max aggregate size 5 mm for **C- GROUT 500**.
- Creates high strength, in short time,
- Excellent for filling large holes > 25 cm like base for heavy equipment.
- Non corrosive and will not attack reinforcement.

Uses:

- Grouting to large holes & gaps over 25 cm.
- Special concrete repair.
- Screeds with special properties.

Mixing Instructions:

- Pour the required water as shown in table 1 in a suitable container.
- Add the **C-GROUT 250** gradually to the water while mixing. recommended to use mechanical mixer for at least 3-5 minutes.
- Wait for 5 minutes before casting to get rid of air bubbles.
- Suitable time for perfect casting shall be within 20 minutes from mixing.

Table 1: Water Ratio for C-GROUT 500

Uses	Water ratio
1. For plastic consistence trowel application	10.5 %
2. For flowable consistency	13.0 %

Application:

1. Clean the surface from loose particle, oil, grease, or any foreign materials.
 2. The surface must be saturated with water, but remove standing water before casting.
 3. Mix as mentioned before and cast in the required gaps.
 4. Clean tools directly after application using water.
- Curing: For proper curing, keep exposed surfaces wet for 24 hrs using wetted cloth.

Technical Data:

Compressive Strength : (ASTM C-109/109M)

Time	PLASTIC 10.5 %	FLOWABLE 13%
1 day	350 kg/cm ²	250 kg/cm ²
3 days	450 kg/cm ²	300 kg/cm ²
7 days	500 kg/cm ²	370 kg/cm ²
28 days	600 kg/cm ²	450 kg/cm ²

Note: From above table water ratio must be adjusted as mentioned to get the proper compressive strength i.e.a small increase in W/R will affect the strength till 30% less.

Setting Time Of O.P.C. : (ASTM C-191) 30 min

Final Density : For Flowable consistency 2.23 gm / cm³, for trowel application 2.34 gm/cm³.

Shelf Life : 12 months in closed container and away from sunlight, heat and humidity.

Environment:

- **C-GROUT 500** is suitable for potable water structures
- Boots, rubber gloves, dust masks, and safety goggles
- Refer to MATERIAL SAFETY DATA SHEETS (MSDS)

For more information please contact our technical department

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END OF TECHNICAL DATA

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