

Mortars

C-GROUT V♦

Non Shrink Grouting Mortar



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

General Properties:

- **C-GROUT V♦** Cement base, free of metal, dry powder used for grouting. Just add water as specified.
- Max aggregate size 1.2 mm for **C-GROUT V♦**.
- Creates high strength in short time,
- High adhesion, non corrosive & will not attack reinforcement.

Uses:

- Grouting holes till thickness (10 X 10) cm and narrow spaces.
- Grouting the upper space of the column chemise for thickness up to 10 cm.
- Grouting under machines, to get high strength non-shrink mortar.

Mixing Instructions:

1. Put the required water as shown in (Table 1) in a suitable container.
2. Add the **C-GROUT V♦** gradually to the water while mixing. Recommended to use mechanical mixer for at least 3-5 minutes.
3. Wait for 5 minutes before casting to get rid of air bubbles.
4. Pot life should not exceed 20 min from mixing.

Table 1: Water Ratio for C-GROUT V♦

Uses	water ratio
1. For plastic consistence trowel application	13 %
2. For flowable consistency	10 %

Note: Mix only the required amount of material that can be applied within 20 minutes.

Application:

1. Clean the surface from loose particle, oil, grease, or any foreign materials.
2. The surface must be saturated with water and before casting remove standing water.
3. Mix as mentioned before and cast in the required area.
4. Clean all 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) at 20°C

	PLASTIC 13 %	FLOWABLE 10 %
1 day	30.0 kg/cm ²	22.0 kg/cm ²
3 days	48.0 kg/cm ²	32.0 kg/cm ²
7 days	55.0 kg/cm ²	42.0 kg/cm ²
28 days	60.0 kg/cm ²	50.0 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 water ratio will decrease the strength till 30%.

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

Consumption : 2.10 - 2.20 kg/m² for 1 mm thickness.

Final Density : For flowable consistency 2.10 gm / cm³, trowel application 2.22 gm/cm³.

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

Environment:

- **C-GROUT V♦** 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

Head Office: 21 Takseem El Awkaf – EL Sawah Sq. Cairo – Egypt

Tel: 002 / 02 240306778 - 240306779 Fax: 002 / 02 24038986

Web site: www.yasmomiser.com E-mail: yasmo@yasmomiser.com