



Sep 2022 Version

# BestGrout CE400

Non- shrink Grout, Modified Polymer-Cement based.

**Description:** BestGrout CE400 is a high compressive strength, non-shrinkage, flow able, cement based compound, supplied in premixed powder, ready to use. It consist special Portland cement, selected quartz sand and special chemicals.

**Recommended for:** BestGrout CE400 is recommended for use such as:

- Anchoring bolts, heavy machinery assembling, pointing.
- Mounting plates of construction posts, keys of bridges.
- Sealing joints of concrete pipes.
- Filling large slots, big concrete honeycombs...
- Patching eroded concrete...
- Special precast concrete members.

**Advantages:**

- Very high and consistent mechanical properties.
- Excellent workability, flow ability.
- Good self-leveling, compacting characteristics.
- Non-shrinking, expanding mortar.
- Very easy application.
- Non-toxic.
- Chloride free, non-corrosion to reinforced steel bars.

## PRODUCT DATA:

**Color/Supply form:** Cement grey color/Dry powder.

**Package:** 25 kg/bag.

**Storage condition:** Unopened bag and in dry and cool places

**Shelf life:** 12 months from the produced date in the right storage conditions

## TECHNICAL DATA:

**Bulk density:** 1.6 kg/liter

**Specific density:** Dry powder: 2.85 kg/liter      Wet grout: 2.20 kg/liter

**Consumption:** 1.9 kg/liter. Need 76 bags for 1m<sup>3</sup> mortar

**Application temperature:** Minimum ambient temperature to apply: 15°C

**Waterproof resistance:** Reinforce the waterproof resistance for structures.

**Mechanical strength:** Increase the mechanical impact resistance.

**Application time:** Within 15 minutes after mixing.

PHỤ GIA & HÓA CHẤT XÂY DỰNG BESTMIX® CONSTRUCTION CHEMICALS & ADMIXTURES  
PHỤ GIA BÊ TÔNG, XI MÀNG - HÓA CHẤT CHỐNG THẤM - VỮA RỘT RỠT KHÔNG CO NGÓT - NIÊN SÀN - KẾT NỐI - TRÁM BÍT - SỬA CHỮA - BẢO VỆ AN THIÊN ★ CEMENT AID - CONCRETE ADMIXTURE - WATERPROOFING - GROUTING - FLOORING - BONDING - SEALING - REPAIRING - PROTECTING - FINISHING

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## Performance:

Properties	Value	Standard
Water Content (%)	13 ± 1	
Flow Table Spread (mm)	230 ÷ 320	ASTM C230
Expansion (24h, %)	≥ 0.1	ASTM C940
Compressive Strength (MPa)		
1 day <sup>(*)</sup>	≥ 10	ASTM C942
3 days <sup>(*)</sup>	≥ 20	
7 days <sup>(*)</sup>	≥ 32	
28 days <sup>(**)</sup>	≥ 45	

(\*): The results for reference. (\*\*): Final result.

## APPLICATION:

**Surface condition:** The surface must be clean, solid, and free from grease or impurities. The surface must be treated as leaking before (if any). The water absorption surface must be saturated to avoid water loss locally and reduce the flow of materials in the application process.

**Mixing:** BestGrout CE400 powder is added slowly to the mixing water to achieve flexibility (viscosity) as required for the application process. However, typically, the optimum mixing water is 13% compared to the weight of powder (3.25 liters of water per 25 kg bag of BestGrout CE400). Use a paddle mixer with a speed of 500-600 revolutions/minute to mix the compound until achieving the homogeneous as required (about 3 minutes).

**Applying:** After mixing, use an iron trowel to stir lightly a few seconds to release air bubbles. Then, pour the compound immediately into the prepared formwork continuously to maintain the pressure necessary for filling the material layer to avoid air entrapment in the structure.  
**Notes:** Formwork must be checked and guaranteed not to leak water during application and before the compound gets cured. Do not use materials that timed out applying.

**Important notes:** The product is applied to the minimum clearance of structure is 8 mm. Curing procedure should be ensured strictly as products originating from other cement. When applying to large structures with a thickness greater 60 mm, in order to save materials and reduce the heat of hydrolysis, and hydration, should add large aggregates are carefully selected as gravel, small stone 1x1,... The quantity of large aggregate is added from 50÷100% and the mixing water is not over 14% compare to the initial weight of BestGrout CE400. Should be tested before application.

**Cleaning:** Clean tools and equipment with water before the mixed grout hardens.

**Safety:** BestGrout CE400 is alkaline like normal cement and can cause skin irritations to persons with sensitive skin. Wear gloves and masks while handling the product. In case of accidental eye contact, wash with fresh water and seek medical advice immediately.

**Disclaimer:** The technical information and application instruction in documents of BESTMIX are based on BESTMIX's current knowledge and practical experience. The information here only describes the general nature of the product, so users should test the product for each purpose. BESTMIX has the right to change the features of our product, user must always refer to the latest technology product