

2019 Version

BestGrout CE600-3HS

No shrinkage Grout, ultra high initial compressive strength, cement-based.

Description:

BestGrout CE600-3HS is a high compressive strength, non-shrinkage, flowable, fiber-reinforced cement-based compound, supplied in premixed powder, ready to use. It consists of special Portland cement, selected quartz sand, fiber reinforced, and special chemicals.

Uses:

- ✓ Anchoring bolts, heavy machinery assembling, pointing.
- ✓ Mounting plates of construction posts, and 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, and flow ability.
- ✓ Good self-leveling, and compacting characteristics.
- ✓ Non-shrinking, expanding mortar. Easy application. Non-toxic.
- ✓ Chloride-free, non-corrosion to reinforced steel bars.

SPECIFICATION

Color/Supply form:	Cement grey color/Dry powder.	
Package:	25 kg/bag.	
Storage condition:	Unopened bag and in dry and cool places.	
Shelf life:	06 months from the produced date in the right storage conditions.	
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 ³ 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.	

Performance:

Properties	Value	Standard
Water Content (%)	10 ± 1	
Flow Table Spread (mm)	230 ÷ 320	ASTM C230
Expansion 24 hours (%)	≥ 0.1	ASTM C940

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Compressive Strength (MPa)

1 day^(*)	≥ 45
3 days^(*)	≥ 60
7 days^(*)	≥ 72
28 days^(**)	≥ 90

ASTM C942

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

INSTALLATION

Surface preparation: 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 CE600-3HS 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 10% compared to the weight of powder (2.50 liters of water per 25 kg bag of BestGrout CE600-3HS). 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 for a few seconds to release air bubbles out. 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: The framework must be checked and guaranteed not to leak water during application and before the compound gets cured. Do not use the material that application time out.

Important notes: The product is applied to the minimum clearance of structure is 8 mm. Curing procedures should be ensured strictly as products originating from other cement.

When applying to large structures with a thickness greater than 60 mm, to save materials and reduce the heat of hydrolysis, hydration, should add the large aggregates are carefully selected as gravel, small stone 1x1 that have quantity added from 50÷100% and the mixing water is not over 11% compared to the initial weight of BestGrout CE600-3HS. Should be tested before application.

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

Safety: BestGrout CE600-3HS 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 instructions 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

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