

2020 Version

BestGrout CE625AW

Non-shrink, high strength, cementitious grout for underwater application.

Description: BestGrout CE625AW is one component, self-leveling, self-compacting, high strength, pre-mixed grout, resistant to cement washout in static or dynamic water, and does not shrink during the curing when applying underwater. BestGrout CE625AW is made from improved cement, selected silicate minerals, and specialized additives as a special formulation.

Use: Suitable for grouting for items that are flooded or affected by the impact of high tides by pouring (or pumping) underwater such as: abutments, wharvé, bridge piles, concrete piles, paths, slides, dams, etc.

Advantage: BestGrout CE575W is a pre-processed compound that only needs to be mixed with clean water to quantify it, so it is very stable in quality and economic, and very easy to use in the application. In addition, BestGrout CE625AW has also the following outstanding advantages:

- ✓ Good resistance to washout should avoid risks when applying under water due to stratification, delamination, or washout.
- ✓ Ability to self-flow, self-compacting, high water repellency, effective filling.
- ✓ No shrinkage during curing and strength development, well dimensional stability, and does not cause separation of joints in contact with the structure.
- ✓ Rapid development of strength, quick to put into use.
- ✓ Easy to apply with simple tools and methods.
- ✓ Odorless, non-toxic to the health of workers.
- ✓ Does not contain chloride ions, and does not corrode reinforcement.
- ✓ Non-toxic, does not pollute living water when in direct contact with the material.

SPECIFICATION

Appearance/Color:	Dry powder, natural grey.
Packaging:	25 kg/bag.
Shelf life:	12 months in an unopened condition and stored in a cool, dry place.
Volumetric mass:	Dry powder: 1.45 kg/l. Mortar: 2.21 kg/l.
Density:	Dry powder: 2.82 kg/l. Mortar: 2.21 kg/l.
Dosage:	1.9 kg dry powder for 1 liter mixed mortar. Need 76 bags for 1m ³ mortar.

PHỤ GIA BÊ TÔNG, XI MÁNG - HỖ CHẤT CHỐNG THẤM - HỖ CHẤT CHỐNG CO NGUẬT - HỖ BÀN - KẾT NỐI - THẨM BỊT - SỬA CHỮA - BẢO VỆ MÀU THIỆN - CEMENT ÁO - CONCRETE ADMIXTURE - WATERPROOFING - GROUTING - FLOORING - SCHEDING - SEALING - REPAIRING - PROTECTING - FINISHING
PHỤ GIA & HỖ CHẤT XÂY DỰNG BESTMIX® CONSTRUCTION CHEMICALS & ADMIXTURES

Application temperature:	Application temperature: 10 °C ÷ 35 °C.
Mixing water ratio:	16.0 ± 0.1 % of powder weight.
Application time:	Within 15 minutes from mixing time.

Physical-Mechanical properties:

Parameters	Requirement	Test method
Flowing ability (mm)	180 ÷ 220	ASTM C230
Change in height at 1, 3, 14, 28 days (%)	0 ÷ 0.3	ASTM C1090
Compression strength (MPa) @ 1 day (*)	≥ 25	ASTM C942
@ 3 days (*)	≥ 40	
@ 7 days (*)	≥ 50	
@ 28 days	≥ 60	
(**)		

(*): The results are for reference only. (**): finally official result.

INSTALLATION

Surface condition:	The surface must be clean, solid, and free from grease, moss, mold, or other impurities. Damages, and cracks must be repaired properly.
Framework:	The framework must be installed firmly, by the technical requirements with specialized anti-adhesive mold oil, to ensure no leakage of mortar during the application process.
Mixing:	BestGrout CE625AW powder is slowly added to a quantified amount of mixing water to meet the required fluidity (flow). Normally, the optimal amount of mixing water is 15% of the weight of BestGrout CE625AW powder (3.75 liters of water for a 25 kg bag). Use a stirrer with a speed of 400-500 rpm or a specialized mortar mixer to mix the mixture until the required consistency is met (about 5 minutes).
Applying:	After mixing well, stir gently with an iron trowel for a few seconds to quickly release air bubbles. Then pour the mixture immediately into the pouring funnel with the pipe into the pre-prepared formwork continuously to maintain the necessary pressure for the layer of material being poured to avoid air entrainment in the structure. The drop height of the material (the distance from the mouth of the pipe to the application position) make sure to be as low as possible (at the beginning stage) and deeply submerged in the material block (in the later stage) to limit the maximum washout of cement mortar. Do not use the amount of material that has exceeded the time allowed for applying.

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