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BestGrout E100

Non-shrinkage epoxy grout, solvent-free, high strength, three components

Description:	BestGrout E100 is a high compressive strength and non-shrinkage epoxy grout. It has low viscosity, three components, and is solvent-free. BestGrout E100 is combined between pure epoxy, specialized admixtures, and specially selected silicate. When applying, just mix three components in a predetermined proportion, do not need further add.
Recommended for:	BestGrout E100 is used for areas subject to heavy loads such as: <ul style="list-style-type: none"> • Repair the concrete surface, filling holes. • Filling joint, couplings bearing in the assembly structures, precast concrete,... • Positioning bolts, anchoring machine foundation, rail pads, filling the baseplate ... • In the case of tinting, BestGrout E100 is used as a floor finish coating for load bearing, chemical resistance, abrasion resistance, and mechanical impact resistance...
Advantages :	<ul style="list-style-type: none"> • High compressive strength, fast-develop. • Non-shrinkage, non-crack. • Easily seals nooks and crannies and narrow gaps. • Good adhesion to a variety of types of cleaned substrate. • Chemical resistance, abrasion resistance, bearing load, mechanical impact resistance. • Non toxic, friendly environment

PRODUCT INFORMATION:

Color :	Natural grey (other special colors requested).
Specific gravity:	2.1 ± 0.05 kg/liter (25°C) (depending on color)
Size aggregate:	0 ÷ 2.5mm
Mixing ratio:	A/B/C = 2.5/1.0/15.0 (by weight)
Package:	31.5 kg/set (#15.0 liters/set)
Shelf life:	12 months from the date of manufacture, in sealed packaging, and stored in a cool place, and dry.
Application temperature:	Minimum: + 10°C (but above dew point temperature of 5°C) Maximum: + 35°C Maximum relative humidity: 80%

TECHNICAL PROPERTIES:

Working time:

Ambient temperature	+20°C	+25°C	+30°C	+35°C
Working time (minutes)	80	55	35	20

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Physical properties:

Flow-ability:	≥ 200	(ASTM C230)
Compressive strength:	≥ 100 Mpa (after 07 days at 30°C)	(ASTM C579)
Flexural strength:	≥ 35 Mpa	(ASTM C580)
Modulus of elasticity in flexure:	~ 12000 Mpa	(ASTM C580)
Adhesion strength:	≥ 1.5 Mpa (Concrete failure)	(ASTM D7234)

Chemical resistance (% weight increased after immersion in chemical solutions at 25°C):

Time	H ₂ O	10% NaCl	10% CH ₃ COOH	10% H ₂ SO ₄	10% NaOH	10% CH ₃ OH
01 day	0.02	0.02	0.70	0.10	0.02	2.05
04 days	0.06	0.04	1.50	0.15	0.05	3.17
07 days	0.08	0.05	1.85	0.25	0.06	4.20

APPLICATION:

Surface condition:	The material surface should be sound and dry (the moisture is not more than 4%). Grease, dirt, rust, cement droppings ... must be completely removed.
Preparation for application:	The cracks or holes that are capable of leaking must be sealed with the appropriate material. In the case of using the formworks the surface in direct contact with the material should be isolated in the PE layer to create favorable conditions to take off formworks later.
Mixing:	Before application, two components A and B must be mixed thoroughly and continue to component C by the ratio of stirrer speed 300÷400 rounds/minute. The mixing time is about 03 minutes or longer until homogeneous.
Application:	After mixing, use a steel trowel to stir lightly for a few seconds to release air bubbles. Then, the mixture is poured immediately into the prepared position to maintain the pressure necessary to avoid air entrapment in the mixture. Note: Do not use material over time to allow application.
Clean:	Use a dry cloth to clean the instruments, and equipment and wash again with BestCleaner SB001 before the mixture starts hardening. After hardening just clean by mechanical method.
Safety:	All three components are neither hazardous nor flammable. However, minimum safety requirements must be met when using the product.

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 features of our product, user must always refer to the latest technology product.

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