

StrongGrout

Admix 100

Plasticized Expanding Admixture for Cement Grouting

Description

StrongGrout Admix 100 is an admixture for cementitious grouts where a low water : cement ratio and positive expansion are required. It is a combination of plasticizing agent and expansion additive to produce a gas expansion medium. Sufficient restrained expansion is developed to ensure a high degree of interfacial contact in the mix.

If pre-packed cementitious grout is required instead of an admixture, use **StrongGrout G50, G60 or G70**, which only required additional of water.

StrongGrout Admix 100 has been tested in accordance to ASTM C940, on Expansion and Bleeding Test, Potentiometric Method, on Determination of Chloride Content, and complied with the specification in this data sheet.

Uses

StrongGrout Admix 100 is suitable for use to grout

- Ground Anchors
- Soil nailing
- Bed grouting
- Duct grouting
- Infilling and jointing

Advantages

- Gas producing expansion compensates for drying shrinkage and settlement in cement based grouts
- Excellent flow and good filling properties
- Good dimensional stability
- No bleeding
- High strength, shrinkage compensated
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout.
- Gives high grout fluidity with low water : cement ratio, for ease of placement or injection.

Standards Compliance

- ASTM C940
- ASTM C827

Physical Properties

Form	Brown Powder
Chloride Content	Nil
Setting Time	Not affected
Time for Expansion	15 mins – Setting
Expansion Characteristics, % ASTM C940	1% – 4%
Pressure to Restrain Plastic Expansion, N/mm ²	Approx. 0.004
Compressive Strength	Improved by up to 15% depending on dosage and water cement ratio, should be confirmed by a site trial.
Compatibility	Compatible with all type of Portland Cement but it is incompatible with High Alumina Cement.

Application Instructions

Dosage

Typical mixes

OPC (kg)	5mm Sand (kg)	Water (litre)	StrongGrout Admix 100	Yield (litre)
50	-	20-22	225	36
50	50	22-24	225	57

Over Dosing

Drastic overdosing of **StrongGrout Admix 100** increases expansion and may cause strength reduction.

Mixing

For best results a mechanically powered grout mixer must be used. For quantities up to 50kg a slow speed drill fitted with a high shear paddle is suitable. Larger quantities will require a high shear mixer. It is essential that machine mixing capacity and labour availability is adequate to enable the grouting operation to be carried out continuously. This may require the use of a holding tank with provision for gentle agitation to maintain fluidity.

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Plasticized Expanding Admixture for Cement Based Grouting

The selected water content should be accurately measured in the mixer. Slowly add cement (and sand if required) and **StrongGrout Admix 100**. Mix continuously for 5 minutes making sure that a smooth even consistency is obtained.

Application

After mixing, areas to be grouted should be prepared in the usual way to ensure, clean, sound, pre-wetted substrates. Place the grout within 20 minutes of mixing to gain the full benefit of the expansion process. Adopt usual placing or pumping procedures ensuring a continuous operation.

Curing

On completion of the grouting operation all exposed areas that are not to be cut back should be thoroughly cured. This should be done after the initial hardening of the grout by continuous application of water or by application of suitable curing membranes.

Packing & Size

StrongGrout Admix 100 : 20 kg pail/bag

Precaution

Gloves should be worn when mixing with **StrongGrout Admix 100**. Wet mix shall be wash with clean water when contacted with skin or eyes. In the event of prolonged irritation, seek medical advice.

Storage

StrongGrout Admix 100 should be stored on pallets in dry conditions. Under these conditions the product will have a shelf life of 12 months.

Technical Support

Estrong offers a comprehensive range of high performance, high quality of repair product for both new and existing concrete surfaces. In addition, the company offers a technical support package to specifiers, end-users and contractors, as well as on site technical assistance.

Additional Information

Estrong manufactures and offers a wide range of complementary products which includes waterstops, waterproofing products, grouts, anchors, specialized flooring products. In addition, a wide range of products formulated for repair and refurbishment of spalled concrete are available.