

StrongGrout Admix 200

Expanding Additive for Cement Based Grouting

Description

StrongGrout Admix 200 is expanding and plasticizing additives for cement slurry and cementitious grouts used for various applications : soil stabilization, ground anchoring, pretested grouting, cable grouting etc.

StrongGrout Admix 200 has a dual function as plasticizing admixture to ensure its strength and expansion additive by producing micro gas expansion during process of setting cement.

It can also be used for cementitious grouting with fine aggregate for special applications.

StrongGrout Admix 200 has been tested to comply to ASTM C940, on Expansion and Bleeding Test, Potentiometric Method, on Determination of Chloride Content

Uses

StrongGrout Admix 200 has various application areas :

- Ground Anchor grouting
- Soil nailing
- Bed and duct grouting
- Soil grouting
- Infilling and jointing

Advantages

- Shrinkage compensate due to expansive additive by producing gaseous expansion.
- High flow / fluidity and easy to pump or placing
- Good dimensional stability
- Minimize bleeding
- Increase strength
- Shrinkage compensated
- No chloride content, prevent corrosion of steel bar.
- Compatible with all type of cementitious materials

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

Actual dosage should be determined by trial mix. Recommended dosage range : 0.4 – 1.0 % by weight of cement depending on the expansion characteristic required.

Typical dosage :

OPC (kg)	5mm Sand (kg)	Water (litre)	StrongGrout Admix 200 (gm)	Yield (litre)
50	-	21 - 23	225	36
50	50	22 - 24	225	57

If super-plasticizing admixture is used, such as StrongMix SP350 is used, the water demand will decrease.

Overdosing of **StrongGrout Admix 200** will cause high expansion of the grout and will decrease compressive strength and durability.

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Mixing

Mix design shall be determined by trial mix using similar type of cement used during application.

For best results and high volume a mechanically powered grout mixer must be used. For small grouting works, a slow speed drill fitted with a high shear paddle is suitable. For high volume will require a high shear vane mixer, equipped with pump grouting.

Measure water as required in the mixed design and place in the mixing container. Add around 2/3 part of water required. Slowly add cement quantity as required (and sand if required) and **StrongGrout Admix 200**. Mix continuously for 2-3 minutes making sure that a smooth even consistency is obtained. Add additional water to adjust flow of the mixed grout.

Application

When mixing completed, areas to be grouted should be prepared in the standard conditions to ensure, clean, sound, pre-wetted substrates. Place the grout within 20 minutes after mixing to gain the full benefit of the expansion process. Strictly follow placing or pumping procedures ensuring a continuous operation and best results.

Curing

All exposed areas after grouting should be 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

StrongGrout Admix 200 : 20 kg pail / bag

Storage

StrongGrout Admix 200 should be stored on pallets in dry conditions. Under these conditions the product will have a shelf life of 12 months.

Precaution

Gloves should be worn when mixing with **StrongGrout Admix 200**. Wet mix shall be washed with clean water when contacted with skin or eyes.

In the event of prolonged irritation, seek medical advice for emergency.

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.