



DURAGROUT E1

Ready-to-use Cementitious Non-shrink High Strength Injection Grout

Description :

DURAGROUT E1 is a cementitious non-shrink high strength injection grout with excellent pumpable/injectable quality for application on vertical, horizontal and overhead surfaces/areas. **DURAGROUT E1** is a ready-to-use grout and only water is required to be mixed/added to produce high quality pumpable/injectable grout.

Use :

DURAGROUT E1 helps to stabilize the structures by filling voids and consolidating the soil. **DURAGROUT E1** is extensively used in most critical and sensitive waterproofing areas by injecting through grout pump. Such application has become a regular pretreatment to the specialized waterproofing systems. **DURAGROUT E1** is an engineering grout based on latest technology in the world. It is also used for injection into cracks of structures. Anchor bolts could be grouted with **DURAGROUT E1** with a high pull out strength. Request may be made for overhead anchor bolt grouting, so that same product with overhead application property is incorporated. **DURAGROUT E1** is much superior to cheap quality site-produced non-engineering cement-water slurries/grout. Such cheap site-produced grout suffers from drawbacks like high shrinkage, high leakage, extremely poor strength etc.

Features :

- High fluidity- Easily injectable/pumpable
- Engineering Modern Grout. No match to ordinary Cement-Water slurries/grout
- High strength
- Non-shrink
- Absolutely water-tight- no leakage of water – waterproofing
- Superb binding property of loose materials inside the structure- Sound consolidation
- Cementitious – Site friendly material
- Chloride free
- Anchor bolts in tunnel construction and ground/soil stabilization
- Crack injection

Application :

Mix **DURAGROUT E1** with water in the proportion of water powder ratio between 0.22 and 0.32 i.e. water of 5.5 litres to 8 litres per 25 kg of **DURAGROUT E1**. Powder grout should be put/poured into water while mixing is carried out. When entire powder grout is poured/put, full five minutes of mixing is required to attain homogeneity of the mix. To take full advantage of the fluidity, such mixed grout should be introduced into the structure within 20 to 30 minutes. If the grout is gelled and hard, it should be discarded and fresh fluid grout should be produced/used. Slow speed drilling machine (350 to 600 RPM) is suitable for mixing.

Technical Data :

Form	: Grey powder
Bulk Density	: 1600 kg/m ³
Chloride	: Nil
Mixed Grout Density	: 1800-1900 kg/m ³
Water/powder ratio	: 0.22 to 0.32
Maximum Particle Size	: 0.40 mm
Volumetric Stabilisation	: +1.2
Working life of fluid grout	: Upto 30 minutes at 27 ± 3 °C
Health & Safety	: Cementitious – Highly alkaline
Self Life	: 12 months if kept unopened original packing in a dry place
Packaging	: In 25 kg sack
Typical Compressive Strength, kg/cm ² , 1 day	: 300
3 day	: 500
7 day	: 600
28 day	: 750
Typical Adhesive strength, kg/cm ² , 1 day	: 50
3 day	: 80
7 day	: 120
28 day	: 150
Shear Strength, kg/ cm ²	: 140

DURA®



IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

WARRANTY: Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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