



EXPA G101

Expanding grout admixture for cement based injection grouting

Description

EXPA G101 is a plasticized expanding grout admixture is supplied as a powder. The material is a combination of a plasticizing agent and a gas producing expansion medium. Sufficient restrained expansion is developed to ensure a high degree of interfacial contact.

Uses

- Reduced water / cement ratio
- Positive expansions
- Bed grouting
- Duct grouting
- Non-shrink infilling and jointing

Advantages

- Plastic shrinkage and settlement in properly designed cementations grout
- Low permeability and long term durability in service
- Gives grout high fluidity with low water/cement ratio
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout
- High early strength development in grouts, without the use of chlorides

Standard compliance:

- BS 8110 Part 1, 1997, Annex A

Method of application

- It shall be ensured that areas to be grouted are clean, sound, and then pre wetted.
- The unrestrained surface area of the grout must be kept to a minimum.
- The selected water content should be accurately measured into the mixer.
- The cement (and sand if required) shall be slowly added to EXPA G101.
- Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.
- The grout shall be placed within 20 minutes of mixing to gain the full benefit of the expansion process.
- Usual placing or pumping procedures shall be adopted ensuring a continuous operation.

Technical Information

Properties	Results
Appearance	Grey Powder
Bulk Density	0.70-0.80 gm/cc
Expansion (%)	Unrestrained expansion of Upto 4% is typical
Time For Expansion	15 minute to 2 hour
Chloride content	Nil
Shrinkage	Nil

Application Rate

- The optimum dosage of EXPA G101 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The dosages range recommended of EXPA G101 is 225gm to 1 Kg per bag of cement as per the requirement of particular work.

Design

CEMENT CONTENT	CONCRETING SAND	WATER CEMENT RATIO	EXPA G101
50KG	50KG	0.44 TO 0.48	225 GMS

Cleaning

- Grouts mixed with EXPA G101 should be removed from tools and equipment with clean water immediately after use. Remove cured material mechanically.

Overdosing

- Drastic overdosing of EXPA G101 increases expansion and may cause frothing.

Coverage

- 50 kg cement and 225 gms EXPA G101 will give 26-36 ltr yield when used with water cement ratio 0.44 to 0.48.

Packaging

- EXPA G101 is supplied in 225gms pouch, 20 Kg bag.

Storage

- Minimum of 6 months shelf-life if kept under room temperature (i.e. 27°C).

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