

ConAd EG

Plasticised Expanding Grout Admixture

DESCRIPTION

ConAd EG is a ready to use powder admixture. This is composition of plasticizing agent and a gas-producing expansion medium.

It is nontoxic and does not contain chlorides or other materials of corrosive nature. When it is added to the mix, by introducing micro bubbles into the mix it produces wet volume expansion and increased fluidity without segregation. It allows the use of reduced water cement ratio with resulting improved strength

USES

ConAd EG is a specially designed expansive grout admixture for cementitious grouts where a reduced water/cement ratio and positive expansion are required.

Mainly it is used for the grouting of pre-stressed cable ducts, bearing plates, tunnels and rock/soil anchoring.

ADVANTAGES

- Reduced water/cement ratio ensures low permeability and long term durability.
- Good strength
- Better adhesion
- Better cohesion.
- Great grout fluidity even with low water/cement ratio.
- Prolonged workability
- Great volume expansion in the wet state
- Definitely no metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout.

TECHNICAL DATA:

Appearance	Powder
Packaging	10 Kgs.
Bulk Density at	~0.83 Kg./L
Chloride content	Nil
Expansion	1-4% depending on
Time of Expansion	15 minutes to 120
Setting Time	Does not affect the setting
Recommended	0.25-0.6% of cement
Compatibility	Compatible with all types of Portland cements

STANDARDS COMPLIANCE

ConAd EG is a suitable pre-stressing grout admixture when complying with BS 8110 Part 1, 1985, section 8.9.4.6

APPLICATIONS:

Surface Preparations:

Areas to be grouted with ConAd EG should be prepared in the usual way to ensure, clean, sound, pre-wetted substrates. The unrestrained surface area of the grout must be kept to a minimum.

Mixing & Placing:

Mixing time of ConAd EG and water cement ratio depends on its usage and types of mixing tools.

For quantity up to 50 Kgs. a slow speed drill paddle is suitable.

For large quantities use high shear vane mixture.

It is essential that machine mixing capacity and labor availability is sufficient to qualify the grouting operation to be carried out constantly.

Normally for pre-stressed concrete works, a mixing time of 3-4 minutes with a water cement ratio of 0.40-0.45 is recommended.

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:

After completion of the grouting operation, exposed areas should be thoroughly cured with fresh water or apply ConCure WB

LIMITATIONS:

Properties of ConAd EG can be significantly influenced by the mixing procedure, properties of the cement being used, addition of water, admixture dosage and ambient or surface temperatures.

Strong overdosing of ConAd EG increases expansion and may cause foaming/bubbling.

ConAd EG is incompatible with high alumina cement.

For achieving ideal results in regard to flowability, expansion, bleeding etc. the suitable water/cement ratio and admixture/cement ratio shall be determined through trial mixes.

PACKAGING:

ConAd EG is available in **10 Kgs. bag**

HANDLING & STORAGE:

ConAd EG has a shelf life of 12 months if kept in a dry cool place in the original packing.

HEALTH & SAFETY PRECAUTIONS:

Where temperatures is less than 5⁰ C or greater than 35⁰ C are encountered, contact our Technical Staff. ConAd EG 811, is of low hazard. Protective gloves, goggles and clothing should be worn. Any contact with eyes or skin should be washed off with soap and clean water. Where this occurs, seek medical advice before continuing use.

TECHNICAL SERVICES:

A trained RADIANT representative is available to assist in the preparation of specifications, and the resolution of concrete problems in the field.

Important Note:

RADIANT Construction Technologies manufactures wide range of construction chemicals, including admixtures, concrete repairing mortars, curing compounds, adhesives, concrete protection coatings, waterproof coatings, grouts & Tile Bond.

Separate Technical Data Sheets are available for these products.