

PLASTICIZING EXPANDING GROUT ADMIXTURE

Description

CEMGROUT AD is a specially formulated grouting aid. It plasticize the mix allowing for substantial reduction in water content without affecting the fluidity, thus improving the strength and impermeability of the grout.

During the setting period of the grout it produces controlled expansion to compensate the normal plastic shrinkage of cement.

Uses

CEMGROUT AD is an admixture for cementitious grouts where a reduced water/cement ratio and positive expansions are required. Applications include bed grouting, duct grouting, non-shrink infilling and jointing.

Advantages

- Gaseous expansion system compensates for plastic shrinkage and settlement in properly designed cementitious grout.
- Reduced water/cement ratio mixes in the grout mix ensures low permeability and long term durability in service.
- Gives grout high fluidity with low water/cement ratio, thus making placement or injection of the grout easy.
- No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout, Composition allows high early strength development in grouts, without the use of chlorides.

Technical Data

- Form : Powder
- Colour : Yellowish Brown

Properties:

Unrestrained expansion: Maximum up to 6%

Time of expansion - 10 minutes to 2 hrs

Expansiveness:

Slight expansiveness leads to bonding with to surrounding materials

Compressive Strength:

The plasticizing action of CEMGROUT AD the water cement ratio allows reduction of the water /cement ratio of cementitious grout whilst maintaining the flow properties

Setting time:

CEMGROUT AD does not significantly alter the setting time of the cementitious based grout

Expansion Characteristics:

The controlled positive expansions in unset grout incorporating CEMGROUT AD over comes plastic settlement.

Application Instruction

Dosage:

OPC	Concreting Sand	Water	CEMGROUT AD	APPROX YIELD
50 Kg	-	20-22 ltr	250 g	36 ltr
50 Kg	50 Kg	22-24 ltr	250 g	57 ltr

Note : For grout, mortar or concrete mixes with an aggregate/cement ratio more than 1, 4 x 250 g units of CEMGROUT AD per 100 kg of cement, shall be used.

Effects of overdosing:

Drastic overdosing of CEMGROUT AD increases expansion and may cause frothing.

Packaging

CEMGROUT AD is supplied in 250 g

Storage and Shelf life

Frost free, protected against the weathering, 12 months in original unopened pack

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Note

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. Large quantities will require a high volume drum 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. The selected water content should be accurately measured into the mixer. The cement (and sand if required) shall be slowly added to CEMGROUT AD. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

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 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.

Curing

On completion of the grouting operation, any exposed areas which are not to be cut back should be thoroughly cured by means of water application, Curewell* curing membrane or wet hessian.

Limitations

CEMGROUT AD is incompatible with High Alumina Cement.

Cleaning

Grouts mixed with CEMGROUT AD should be removed from tools and equipment with clean water immediately after use. Cured material should be removed mechanically or with Reebaklens, multipurpose cleaning agent.

Safety precautions

User must read Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

Note

All Technical Data Sheets of FIRSTCHOICE SPECIALITY CHEMICALS are updated on regular basis; it is the user's responsibility, to obtain the most recent issue. Field services where provided, does not constitute supervisory responsibility, for additional information contact our local representative.

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