

PC Grout Admix



Plasticised expanding grouting admixture

Product Overview

PC Grout Admix is a powder additive which when mixed with cementitious system imparts shrinkage compensation and high flowability, pumpability to the mix. It produces controlled positive expansion and minimises water demand.

Areas of applications

1. Cable duct grouting
2. Cavity filling
3. Filling gaps between precast elements
4. Repairing honeycombs by pressure grouting
5. Site batched repair/reprofiling mortars
6. Filling up the plumbing & electric chases
7. Bed grouting

Properties

1. PC Grout Admix compensates shrinkage in plastic stage.
2. It Gives high grout fluidity with low water/cement ratio, thus making placement or injection of the grout easy. Reduced water/cement ratio in the grout mix ensures low permeability and long term durability in service.
3. It minimizes the mistakes on site
4. It is very cost efficient.
5. It is compatible with wide range of chemical and mineral admixtures and rapid hardening portland cement and most types of portland cement
6. No metallic iron content to corrode and cause staining or deterioration due to rust expansion in the grout.

Guidelines for Usage

1. Surface preparation : All areas to be grouted must be clean and free of oil, grease, dirt and contaminants. Remove all loose materials. Where required, provide air-relief openings to avoid entrapment of air. All metal components to be in contact with grout must be free of rust, paint, or oils. All concrete to come in contact with the grout must be thoroughly saturated with clean water for a minimum of 12 hours before placement of grout. Remove excess water from holes and voids just before grout placement.

2. Mixing : For best results a mechanically powered grout mixer must be used. For quantities up to 50 kg a slow speed drill fitted with a mixing paddle is suitable. Larger quantities will require a high shear vane 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. Slowly add the cement (and sand if required) and PC Grout Admix. Mix continuously for 15 minutes, making sure that a smooth even consistency is obtained.

3. Application: 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.

Cable Duct: Grouts for ducts of post-tensioned concrete members should be passed through a 1.18mm BS sieve before reaching the pump, and the pump should be capable of giving a

continuous flow of grout to the injection equipment.

Bed grouting: Placing should be without interruptions until completion. Place the mixed grout into the pouring hopper of the formwork within 15 minutes after mixing. Place from one side only.

4. 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, Concre curing membrane or wet hessian.

Mixing ratio and yield

PC Grout Admix is used at the rate of 500 gm per 100 kg cement. Contact your MCrete technical representative for recommended procedures.

Packages available

Mcrete PC Grout Admix is available in 15 kg bags.

Storage and Shelf life

PC Floor HD should be stored away from direct sunlight. It has 12 months shelf life when stored in original, dry and unopened packs.

Safety Measures

1. Proper safety and health precautions should be taken like wearing nose masks, hand gloves, safety glasses and safety apron, etc.
2. Sufficient manpower is required to produce consistent results on large placements.
3. PC Grout Admix must be stored in dry place.

Technical data

Aspect	Brownish/yellowish grey free flowing powder
Chloride ion content	< 0.2%
Compressive strength at 7 days	28 MPa (Neat cement grout*) 25 MPa (Cement sand grout*)
Volume Expansion	up to 4% (Neat cement grout*) up to 2% (Cement sand grout*)

For further clarifications Please contact on below address

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