

ContecFlow 199

Plasticized Expanding Grout Admixture

Description:

ContecFlow 199 is a powder plasticizing agent allows the use of a reduced water/cement ratio with consequent increased strengths and durability. The expansive medium counteracts the natural settlement and plastic shrinkage of the grout and aids stability and cohesion.

Uses:

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:

- 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.

Properties:

Appearance	Brown Powder
Expansion (ASTM C827/C827M-10)	Up to 5%
Initial setting time (ASTM C191)	5 hrs (+-0.5 hr)
Chloride Content	Nil
Compressive strength @28 days: (ASTM C109/109M-11)	> 45 MPa (without sand) > 50 MPa (with sand)

Compliance:

ContecFlow 199 is compatible with all types of Portland cement

Instructions for 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 **ContecFlow 199**. Mixing shall be continued for 5 minutes, making sure that a smooth even consistency is obtained.

Typical Dosage:

227 grams for 50 kg of cement

Effects of Overdosing:

Drastic overdosing of **ContecFlow 199** increases expansion and may cause frothing

Packaging:

Supplied in 227 gram / bag

Shelf Life/ Storage:

shelf life of 12 months if kept in a dry store in its original packing. High temperature and humidity storage may reduce this period.

Safety Precautions:

ContecFlow 199 is of low hazard. Contact with the skin and eyes, or inhalation of dust should be avoided. Suitable protective clothing, gloves eye/face protection and dust mask should be worn. In case of contact with skin, it shall be washed with clean water. In case of contact with eyes, it shall be rinsed immediately with plenty of water and medical attention shall be sought immediately.

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