

Flo-Add 2

Hydrogen free expansive and plasticising grout admixture



Description

Flo-Add 2 is an expansive and plasticising admixture for cementitious grout where a low water to cement ratio and positive expansion are required.

Applications

Flo-Add 2 is ideally designed for use in the following applications:

- ▲ Bed plate grouting.
- ▲ Duct grouting.
- ▲ Grouting tunnel lining.
- ▲ Non-shrink infilling grouts.
- ▲ Post tensioned cables.

Advantages

- ▲ Non-Shrink: Hydrogen free expansion system compensates for plastic shrinkage and settlement in cementitious grouts.
- ▲ High Flow: Excellent grout fluidity at reduced water to cement ratio, for ease of placement or injection.
- ▲ Durability: Low water to cement ratio ensures low permeability and long term performance.
- ▲ Chloride free.
- ▲ Iron free.

Method of Use

Proposed Mix

Flo-Add 2	OPC	Sand	Water	Yield
225 g	50 kg	-	21 ± 2	35 ltr
225 g	50 kg	50 kg	23 ± 2	56 ltr

Note: For grout, mortar or concrete mixes with an aggregate cement ratio more than 1, use 4 x 225 g units of Flo-Add 2 per 100 kg of cement.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used for quantities up to 50 kg.

High shear vane mixer is required when mixing large quantities.

Technical Properties:

Colour:	Grey
Expansion: ASTM C937-97	3 - 9% (baed on Na ₂ O content of cement is < 0.39%)
Chloride content: BS 5075	Nil
Compatibility:	Flo-Add 2 is compatible with all types of Portland cement
Flow characteristics: (directly after mixing) ASTM C939-87	< 32 sec
Working time:	30 min
(Re-mixing is required to achieve the needed flow directly before the application)	
Chloride content: BS 5075	Nil
Compatibility:	Compatible with all types of cement

Note: When a test for compressive strength is conducted, it is important to make the compressive strength @ 1 day to be under restraint, and the compressive strength for 3, 7 and 28 days is under wet cure.

The required water content should accurately measured and added into the mixer or a mixing bucket. Add the full amount of Flo-Add 2 powder at first and mix for 1 - 2 minutes. Then slowly add cement (and sand if required) and mix for 4 - 5 minutes until smooth even consistency is achieved.

Placing and Finishing

Enough materials should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment.

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Areas to be grouted should be clean, sound and must be pre-wetted with clean water. The mixed grout should be placed directly after mixing. Working time will be within 30 minutes and remixing will be needed directly before the application to get the needed flow and expansion. Care should be taken to keep the unrestrained surface areas of the grout to a minimum.

Packaging

Flo-Add 2 is available in 0.225 and 5 kg bags.

Dosage

Flo-Add 2 dosage is 225 g per 50 kg of OPC.

Storage

Flo-Add 2 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Flo-Add 2 is of low hazard and may cause irritation to skin or eyes.

In case of accidental contact with skin or eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advice if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Flo-Add 2 is nonflammable.

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- ▲ Concrete admixtures.
- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
- ▲ Protective coatings.
- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
- ▲ Building products.
- ▲ Structural strengthening.

Note:

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