

# Flo-Add HFPC

Hydrogen free expansive grout additive



## Description

Flo-Add HFPC is a hydrogen free expansive additive for cementitious grout, specially designed for use with mixes containing polycarboxylic (PC) admixtures. The addition of Flo-Add HFPC to the cementitious mixes will produce an expansive grout with excellent bond to steel.

## Applications

- ▲ Bed plate grouting.
- ▲ Non-shrink infilling grouts.
- ▲ Where an expansive grout is required.
- ▲ Grouting tunnel lining.
- ▲ Post tensioned cables.
- ▲ Duct grouting.

## Advantages

- ▲ Non-Shrink hydrogen free expansion system to prevent steel corrosion.
- ▲ High bond to steel.
- ▲ Chloride free.

## Method of Use

Flo-Add HFPC should be added to the concrete with the mixing water to achieve optimum performance.

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.

Mix for 5 minutes until smooth even consistency is achieved.

## Dosage

The guidance dosage of Flo-Add HFPC is 0.52 - 1.56 kg per 50 kg of OPC.

Representative trials should be conducted to determine the optimum dosage of Flo-Add HFPC to meet the performance requirements by using the materials and conditions in actual use.

## Technical Properties:

|                              |  |
|------------------------------|--|
| Colour:                      | Brownish powder                        |
| Expansion:                   | Up to 2%                               |
| Chloride content:<br>BS 5075 | Nil                                    |
| Compatibility:               | Compatible with all types<br>of cement |

## Placing and Finishing

Areas to be grouted should be clean, sound and must be pre-wetted with clean water. Care should be taken to keep the unrestrained surface areas of the grout to a minimum.

## Curing

Grouts mixed with Flo-Add HFPC are a cementitious based, they should be treated in a similar way to concrete. Curing can be conducted by either using concrete curing compound such as Setseal 22 or by using wet hessian and polyethylene.

## Cleaning

All tools should be cleaned immediately after finishing using clean water. Hardened material can be cleaned using proper mechanical means.

## Packaging

Flo-Add HFPC is available in 0.52 kg bags.

## Storage

Flo-Add HFPC 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 advise.

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## Cautions

### Health and Safety

Flo-Add HFPC 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 HFPC 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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