

## Flo-Add HF Method Statement (Hydrogen free expansive and plasticising grout additive)

### Section A : General Comments

#### High temperature working

- (i) Store unmixed materials in a shaded area, avoiding exposure to direct sunlight.
- (ii) It is not recommended to apply the materials during the hottest time of the day.
- (iii) It is also recommended to use tap water with temperature not exceeding 25°C.
- (iv) To ensure continuous grout pouring, enough materials, water, and labour should be available.

#### Equipment

It is suggested that the following list of equipment is adopted as a minimum requirement:

<i>Protective clothing</i>	:	<i>Protective overalls and safety shoes Good quality gloves, goggles and face mask</i>
<i>Mixing equipment</i>	:	<i>Graduated cylinder, drill mixer and suitable mixing paddle</i>
	:	<i>Mixing bucket (25 litre) or more</i>
	:	<i>Diphram pump or piston pump</i>

### Section B : Application

#### 1.0 Surface Preparation

- 1.1 Surface must be clean and sound.
- 1.2 All dust, laitance, grease and curing compound should be removed by suitable method.
- 1.3 All honey combed or defected concrete surfaces must be removed to reach sound and solid surfaces.
- 1.4 Base plate's underside should be clean and free from oil, rust and scale.
- 1.5 Concrete surfaces and formworks shall be soaked with water for 12 - 24 hours prior to application aiming to reach saturated surface dry. All excess water must be removed before application.
- 1.6 For post-tension grouting, cables should be carefully cleaned before grouting and anchorage should be sealed prior to duct grouting.

#### 2.0 Formwork

- 2.1 Formwork should be made of rigid non-absorbent materials.



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- 2.2 Formwork should be securely fixed, liquid tight and strong enough to withstand grout pressure developed during grout pouring.
- 2.3 A head box (feeding hopper) 100 - 250 mm high should be erected at one side with minimum 50 mm side clearance to aid in building hydrostatic pressure enough for the grout to travel underneath the base plate or to have the required filling ability.
- 2.4 All formwork should be coated with suitable oil release agent.

### 3.0 Mixing

- 3.1 Use one unit of 520 g/50 kg of cementitious materials.
- 3.2 To ensure proper mixing, a mechanically powdered mixer or drill fitted with suitable paddle should be used for quantities up to 50 kg.
- 3.3 The required water quantity should be accurately measured and added into mixer according to the specified strength and consistency.
- 3.4 Add full amount of Flo-Add HF powder at first to the water and mix for 1 - 2 minutes.
- 3.5 Then slowly add cement (and sand if required) and mix for 4 - 5 minutes until smooth even consistency is achieved.

### 4.0 Curing

- 4.1 The poured grout should either wet cured for minimum 3 days using wetted hessian cloth and PE sheet or by using curing compound such as Setseal 22/33/44, in case of post-tension grouting only exposed areas should be cured.

## Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Flo-Add HF**. It remains the responsibility of the Engineer to determine the correct method for any given application. Where alternative methods are to be used, these must be submitted to DCP for approval, in writing, prior to commencement of any work. DCP will not accept responsibility or liability for variations to the above method statement under any other condition.



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