

## Flo-Grout PC100 Method Statement (Non-shrink cementitious grout for precast concrete units)

### Section A : General Comments

#### High temperature working

The following guidelines are adopted as good working practice:

- (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</i>
	:	<i>Good quality gloves, goggles and face mask</i>
<i>Mixing equipment</i>	:	<i>Graduated cylinder, slow speed mixer and double head Mixing Paddle</i>
		<i>Mixing bucket (25 litre)</i>
<i>Application equipment</i>	:	<i>Screw pump or any other alternative suitable pump</i>
	:	<i>Steel trowel</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 The width of the joint must be at least 15 mm. If the joint is open from the both side, use a stopper board on one of the sides.
- 1.4 Joint surfaces should be damped with clean water prior to the application of Flo-Grout PC100.
- 1.5 Thoroughly clean the pump, hose and nozzle with clean water to avoid any blockage during the pumping process.



## 2.0 Mixing

- 2.1 Using graduated cylinder measure 3.4 – 4.0 litre of clean water for flowable consistency into the mixing bucket.
- 2.2 Slowly add the full 25 kg bag of Flo-Grout PC100 to the measured water and using the mechanically powered mixer or drill fitted with a suitable paddle mix continuously for 3 minutes until smooth, lump free consistency is reached.
- 2.3 No part bag mixing is allowed.

## 3.0 Placement procedure

- 3.1 Consult the pump manufacturer for specific recommendations during the placing of grout.
- 3.2 If the joint is opened on the both sides, place a stopper board on one side of the joint. The stopper board should be removed once sufficient amount of time has elapsed depending on the working conditions and use a trowel to finish the joint.
- 3.3 Start the pumping at the far end space to be filled by grout, as the grout starts filling the space, back the nozzle out in horizontal application or raise it up slowly in vertical applications so that it will always submerge within the grout.
- 3.4 For the application behind reinforcement bars, a piece of steel tube with a pointed tip is attached to the hose to allow the ease of application.
- 3.5 The mixed grout should be placed continuously in this procedure to avoid air entrapment until the entire gap (joint) is filled by the grout.
- 3.6 Level and finish the applied grout into the joints using a proper steel trowel.

## 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.

### Notes:

- *At low temperatures (below 8°C), warm water is recommended to achieve the early strength. And the stopper board should be kept for a longer time.*
- *At high temperatures (35°C and above), cold water (less than 20°C) must be used for mixing.*

### Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Flo-Grout PC100**. 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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