

Cempatch FS Method Statement

(One component fast setting repair mortar)

Section A : General Comments

General

- (i) Cempatch FS can be applied horizontally for sections up to 100 mm. For deeper sections, 8 – 12 mm washed aggregates should be added per 25 kg bag. Water addition shall remain the same. Yet minimum application thickness should not be less than 20 mm.
- (ii) Cempatch FS shall be used when the ambient temperature is between 5°C and 50°C. Cold water shall be used to prevent mixed material temperature exceeding 32°C.
- (iii) The area to be repaired should be marked on the structure.

Equipment

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

<i>Protective clothing</i>	:	<i>Protective overalls</i>
	:	<i>Good quality gloves and goggles</i>
<i>Equipment</i>	:	<i>Slow speed mixer fitted with large mixing paddle</i>
	:	<i>Graduated cylinder</i>
	:	<i>Clean empty drum (25 litre)</i>
	:	<i>Wooden and steel trowel</i>

Section B : Application

1.0 Preparation

- 1.1 Cut back all the damaged or weak concrete by a suitable means to reach sound concrete or to a minimum depth of 10 mm.
- 1.2 All the prepared surfaced must be sound, dense, clean and free of any oil, grease, loose or fractured aggregate or any other contaminants that may adversely affect the adhesion.
- 1.3 Exposed reinforcement steel shall be grit blasted to a minimum grade of Sa 2 according to ISO 8501-1.
- 1.4 All grit blasted steel reinforcements should be primed within 2 - 4 hours with one or two coats of zinc rich epoxy coating Repcoat ZR.
- 1.5 Alternatively, Cempatch Primer M which is a cementitious bonding agent and active protective primer can be used prior to the application of the repair mortar.
- 1.6 Thoroughly saturate the surface of the concrete to provide a saturated, surface dry condition. Any excess water on flat surfaces should be removed prior to application of the mortar.

Note: In case of fully submerged condition, or when the concrete elements will be exposed to chemicals, epoxy bonding agent Quickmast 108 should be used as a primer at a rate of 3.5 kg/m² before applying the repair mortar.

2.0 Mixing

- 2.1 Hand mixing with trowel or similar of Cempatch FS is not allowed. A variable speed mixer with large mixing paddle should be used.
- 2.2 Water addition shall be 3.75 litre of potable water per 25 kg bag.
- 2.3 Pour the required amount of mixing water into the pre-wetted mixing drum. Start the mixer and add the Cempatch FS powder rapidly and continuously. Mix for 4 - 5 minutes after all the powder has been added until the mortar is homogeneous and lump free.

3.0 Application

- 3.1 Where Cempatch FS mortar is trowel applied it must be forced into the prepared substrate ensuring intimate contact and good compaction.
- 3.2 The surface of the placed mortar shall be leveled using a wooden flat. Final finishing may be done with a wooden, plastic or steel trowel, depending upon the finish required.
- 3.3 Cempatch FS horizontal surface application area should not exceed 3 m².

4.0 Curing

- 4.1 **Immediately** on completion of repair, cure Cempatch FS with curing compound Setseal 22/33/44 or by using wet hessian cloth with PE sheets.

Section C : Approval and variations

This method statement is offered by DCP as a 'standard proposal' for the application of **Cempatch FS**. 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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