



# شركة أبولو لكيمائيات الأبنية Apollo For Construction Chemicals

## Apollo Floor CS200 Method Statement (Trowel applied cementitious screed)

### Section A: General Comments

#### Equipment

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

<i>Protective clothing</i>	:	<i>Gloves, goggles, face mask and protective overalls</i>
<i>Mixing equipment</i>	:	<i>drum or free fall mixer</i>
<i>Application equipment</i>	:	<i>Trowel, wooden float and steel trowel</i>

### Section B: Application

#### 1.0 Substrate Preparation

- 1.1 Concrete substrates should be fully cured and achieve a minimum compressive strength of 25 N/mm<sup>2</sup> and a minimum pull-off strength of 1.5 N/mm<sup>2</sup>. The concrete substrate should be below 75% RH and have less than 4% moisture content.
- 1.2 Alternatively, should be applied primer according to the priming section.

#### 2.0 Surface Preparation

- 2.1 Concrete surfaces must be degreased using degreasing products, torching or any other suitable method which assures the surface is free from any oil traces.
- 2.2 Surfaces should be sound and with no irregularities as they can affect the finish of the applied product.
- 2.3 Concrete surfaces are to be mechanically prepared to remove laitance and achieve a flat surface, grit blasting or surface profiling equipment are preferred. Acid etching can be used after consulting with Apollo Technical Department. Surface defects such as voids and blowholes should be repaired before application. Consult Apollo Technical Department for the best repair material.
- 2.4 Surfaces must be free of any dust or loose particles before product application. Use suitable methods like vacuuming or sweeping. If possible, apply the product on a small



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test area before actual application to check for any problems with the surface preparation.

### 3.0 Priming

- 3.1 It is not usually necessary to prime absorbent surfaces. However, to ensure satisfactory bonding, the prepared surface should be dampened down to minimize pin holing.
- 3.2 Ensure that the surface is in a saturated surface dry condition i.e. no visible surface water prior to application of Apollo Floor CS200.
- 3.3 For surfaces with RH between 75% and 85%, without the need to dampen the surface, prime with one coat of Apollo Primer and allow to dry prior to application of Primer.
- 3.4 For surfaces with RH greater than 86%, without the need to dampen the surface, prime with two coats of Curing Compound and allow the second coat to dry prior to the application of Primer.
- 3.5 After Curing Compound has been applied and left to cure, apply Primer and whilst it is still tacky fully blind with Antislip Aggregate #2 at approximately 3 kg per m<sup>2</sup>, until the surface is covered and no resin spots remain.
- 3.6 Allow to dry fully overnight and remove excess aggregate before applying Apollo Floor CS200.

### 4.0 Mixing

- 4.1 Use drum or free fall mixer to mix 50 kg of powder to 6.50 - 7.50 litre of fresh clean water or 3.25 - 3.75 litre for 25 kg powder for 3 - 5 minutes prior to spreading.

### 5.0 Application

- 5.1 Spread the mixed material by trowel.
- 5.2 Tamp well in place with wooden float at a thickness of 10 mm - 50 mm in single application.

*Note: Greater thickness can be achieved by application of multiple layers.*

- 5.3 Apollo Floor CS200 shall be finished with steel trowel to achieve the required smoothness and to fully close the surfaces.

### 6.0 Curing

- 6.1 It is recommended that freshly hardened surfaces are cured with damp hessian or to be



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covered with polyethylene sheets, especially in harsh climatic conditions like direct sunlight, flow of wind, elevated temperatures, etc;.

### 7.0 Cleaning

7.1 Tools and equipment can be cleaned with water.



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## Section C: Approval and variations

This method statement is offered by Apollo for construction chemical as a 'standard proposal' for the application of **Apollo Floor CS200**. 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 Apollo for construction chemical for approval, in writing, prior to commencement of any work. Apollo for construction chemical will not accept responsibility or liability for variations to the above method statement under any other condition.