

Method Statement

Brushcrete

Section A : General Comments

High temperature working

It is suggested that, for temperatures above 35⁰C, the following guidelines are adopted as good working practice:

- (i) Store unmixed materials in a cool (preferably temperature controlled) environment, avoiding exposure to direct sunlight.
- (ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep cool those surfaces of the equipment which will come into direct contact with the material itself.
- (iii) Try to avoid application during the hottest times of the day, arrange temporary shading as necessary.
- (iv) Make sufficient material, plant and labour available to ensure that application is a continuous process.

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, goggles and face mask</i>
<i>Preparation equipment</i>	:	<i>Electric or pneumatic breaker</i>
<i>Mixing equipment</i>	:	<i>1 KW slow speed drill, 400 or 500 rpm, plus Fosroc propeller agitator</i>
<i>Application equipment</i>	:	<i>Stiff brush</i>
	:	<i>Suitable spray equipment</i>

Application - points of note

Fosroc operates a policy to encourage the use, where possible, of approved or licensed applicators. This ensures that coatings are completed satisfactorily so that the long term performance of the materials is assured.

Section B : Application Method

1.0 Surface preparation

Attention to full and proper preparation of the substrate is essential for complete adhesion.

- 1.1 All surfaces should be dry and free from contamination such as oil, grease, loose particles, decayed matter, moss, algae growth, laitance, and all traces of mould release oils and curing compounds. This is best achieved by lightly grit blasting the surface.
- 1.2 Treatment with a proprietary biocide should be carried out after the grit blasting, in areas where moss, algae or similar growths have occurred.
- 1.3 Spalled and deeply disintegrated concrete should be removed to sound concrete and repaired with a Fosroc repair system.
- 1.4 All surfaces to be treated with Brushcrete must be pre-soaked with clean water.

2.0 Mixing

- 3.1 Pour Brushcrete into a bigger container from the provided pail.
- 3.2 The Brushcrete should be mixed with cement in the ratio of 1:2 (Brushcrete: Cement)
- 3.3 For Brush application, mix powder component to liquid component using a propeller agitator attached to a slow speed drill.
- 3.4 While mixing, ensure that the cement is added gradually to the liquid to avoid lump formation and mix for 2 minutes.
- 3.5 Mix material usable within the pot life.
- 3.6 Keep mixing Brushcrete during the application.

4.0 Application

- 4.1 Surface to be treated with Brushcrete should be pre-wetted with clean water and should be touch dry during application.
- 4.2 Ensure two coats of application are applied at an interval of 5-6 hours.
- 4.3 The coats should be applied in a uniformly to achieve the thickness of 1-2mm.
- 4.4 For brush applications, short stiff brush, preferably 120 - 200mm width is best suitable.
- 4.5 Apply the coats perpendicular to each other.
- 4.6 When used in conjunction with fibre mesh, should be neatly embedded between the 2 coats

5.0 Curing

- 5.1 During the first 12 hours of curing, the coating must be protected from abrasion, rain and other adverse conditions.
- 5.2 No traffic shall be allowed on Brushcrete treated surface within 48 hours after application.
- 5.3 After application of final coat of Brushcrete, initial air drying shall be done for 2-6 hours. During this period no water is to be used for curing.
- 5.4 In case of high temperature and low humidity combined with high wind condition, the coating shall be covered with polythene sheet to avoid rapid drying of the coating.
- 5.5 After maximum period of 6 hours of the final application moist curing shall be done for the next 24 hours by way of spraying water on Brushcrete coating. During this period at no point of time should the Brushcrete coating be left completely dry or submerged in water. Following moist curing, the Brushcrete coating shall be allowed to air dry for 3 days before submersion in water if required for use

6.0 Cleaning

- 6.1 Brushcrete must be removed from tools and equipment with clean water immediately after use.

Section C : Approval and variations

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