

Setseal B Method Statement

(Elastomeric acrylic cement modified waterproofing coating)

Section A : General Comments

High temperature working

- (i) Unmixed materials and the equipment should be stored in a cool place and out of direct sunlight.
- (ii) Plan for enough material, tools and labours to avoid any stop while the application process.
- (iii) Avoid application through peak temperatures of the day.

Equipment

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

<i>Protective clothing</i>	:	<i>Good quality gloves, goggles and protective overalls</i>
<i>Mixing equipment</i>	:	<i>Heavy duty mixer, Mixing paddle and empty bucket (25 litre)</i>
<i>Application equipment</i>	:	<i>Short haired roller or soft bristled brush</i>

Section B : Application

1.0 Surface Preparation

- 1.1 Surface should be clean and free from any laitance, wax, grease, dirt and oil or any materials could affect the bond.
- 1.2 Suitable Mechanical method such water jet or sand blasting or any equivalent method should be used to remove any existing old coating or surface treatments like the curing compound etc.
- 1.3 All cracks and spalled concrete should be repaired before starting the application as recommended by our technical department.
- 1.4 Presoak the concrete surface with water prior to Setseal B application until a surface saturated dry condition is reached.
- 1.5 Remove the excess water by sponge prior starting the application.

2.0 Mixing

- 2.1 Use slow speed mixer fitted with mixing paddle to mix the powder and the liquid polymer.
- 2.2 Pour the liquid polymer in suitable clean bucket and start adding the powder to the polymer gradually while continuous mixing is maintained using the mentioned mixer.
- 2.3 Time of mixing should be between 3 - 5 minutes or until lump-free slurry is obtained.



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- 2.4 Do not mix part of packs under any condition, as this will change the mixing ratio between the powder and the liquid polymer which will affect the material performance.

3.0 Application

- 3.1 Apply the mixed material using a brush, roll, trowel, or spray machines. The mixed material should be brushed/rolled well into the substrate in one direction.

Note: Do not spread the material too thin.

- 3.2 Apply the first coat into the concrete surface at wet film thickness of 1 mm.

Note: When the material begins to drag, do not add any water, but dampen the surface again.

- 3.3 A minimum of 3 - 5 hours, depending on the prevailing ambient temperature, should be given for the first coat to cure before applying the second coat.
- 3.4 If the first coat is left exposed for a long period of time, it is recommended to wash the surface with water before applying the second coat, in order to ensure a dust free surface.
- 3.5 For brush or roller application, the second coat should be applied in a perpendicular direction to the previous layer to ensure good bond and coverage.
- 3.6 To achieve a smooth finish, it is recommended to finish the surface with a trowel immediately after brushing the second coat. The total dry film thickness for both coats should be 2 mm.
- 3.7 Allow 4 -7 days depending on ventilation and ambient temperature after applying the second coat for full curing before water immersion.

Notes:

- *Setseal B should not be applied to frozen substrates or if ambient temperature is below 5°C or expected to fall below 5°C.*
- *The area must not be exposed to moving water during application.*
- *Setseal B can be submerged with water after 5 – 7 days of application depending on ambient temperatures and relative humidity.*
- *Where cementitious plaster is to be applied over Setseal B, a mix of sand, cement and Cempatch SBR should be sprayed over Setseal B as key. Addition rate of Cempatch SBR should be 10 litre/bag of cement.*

4.0 Cleaning

- 4.1 Use clean water to clean the tools within the pot life of the material.

Section C : Approval and variations

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