



شركة أبولو لكيمائيات الأبنية Apollo For Construction Chemicals

NASA Proof W110 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 NASA Proof W110 application until a surface saturated dry condition is reached.



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Apollo For Construction Chemicals

- 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.
 - 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 soft brush or roller.
 - 3.2 Apply the first coat into the concrete surface at wet film thickness of 1mm.
 - 3.3 Allow 3 hours for curing at temperature of 30C° before applying the second coat in a well ventilation surfaces. For limited ventilation or at low temperature, allow 24 - 48 hours before applying the second coat.
 - 3.4 Apply the second coat at wet film thickness of 1 mm but in a direction perpendicular to the first coat.
 - 3.5 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.
 - 3.6 Allow 4 -7 days depending on ventilation and ambient temperature after applying the second coat for full curing before water immersion.
- 4.0 **Cleaning**
 - 4.1 Use clean water to clean the tools within the pot life of the material.



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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 **NASA Proof W110**. 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.