



# شركة أبولو لكيمويات الأبنية Apollo For Construction Chemicals

## NASA Guard Proof W410 Method Statement (Elastomeric acrylic waterproof coating for roofs)

### Section A: General Comments

#### High temperature working

It is suggested that, for temperatures above 40°C, the following guidelines are adopted as good working practice:

- (i) Unmixed materials and equipment should be stored in cool, dry place and away from direct sunlight.
- (ii) Plan for enough material, tools and labours to avoid any stoppage during the application process.
- (iii) Avoid application through peak temperatures of the day.
- (iv) Ensure proper and adequate ventilation.

#### Equipment

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

<i>Personal protection</i>	:	<i>Protective overalls, thick gloves, goggles and face mask</i>
<i>Preparation equipment</i>	:	<i>Stiff wire brush</i>
	:	<i>Soft brush</i>
	:	<i>Air compressor</i>
<i>Application equipment</i>	:	<i>Brush, roller or airless spray</i>

### Section B: Application

#### 1.0 Preparation

- 1.1 All surfaces to be waterproofed must be clean, sound, dry, and free of all surface contaminations such as form release agents, curing compounds, laitance, dust, dirt, cavities, projecting nibs, etc.
- 1.2 If present, laitance should be removed from concrete by grit blasting or wire brushing.
- 1.3 Ensure the substrate surface is smooth and free from cracks. Any surface imperfections shall be repaired using a suitable cementitious repair mortar.



# شركة أبولو لكيمويات الأبنية

## Apollo For Construction Chemicals

### Notes:

- *New concrete structures need to cure and dry for at least 14 days.*
- *NASA Guard proof W410 should not be applied on surfaces expected to suffer from rising dampness or relative humidity greater than 75%.*
- *It is not recommended to apply this material if the ambient temperatures might drop to below 5°C.*

### 2.0 Priming

- 2.1 For porous concrete substrates, NASA Guard proof W410 Primer should be used.
- 2.2 NASA Guard proof W410 Primer should be applied at a rate of 5 m<sup>2</sup>/litre onto the dry and clean substrate using a roller EE, brush or airless spray machine.
- 2.3 The primer must be left to cure for 4 hours at 25°C.

### 3.0 Application

- 3.1 Mix the material well before use using a low speed (300 rpm) mixer or electric drill.
- 3.2 Apply the first coat with brush, roller or airless spray machine at a rate of 1.5 - 2.0 m<sup>2</sup>/litre.
- 3.3 Leave the first coat to cure for 4 hours at 25°C.
- 3.4 Apply the second coat at a rate of 1.5 – 2.0 m<sup>2</sup>/litre perpendicular to the first coat. The second coat should be applied within 12 hours from the application of the first coat.

*Note: For substrates which will be subjected to pedestrian traffic, it is recommended to use fibreglass scrim reinforcement, embedded firmly in the second coat while still wet, and a third coat should be applied at the same coverage rate.*

### 4.0 Cleaning

- 4.1 Tools and equipment can be cleaned **immediately** before curing with clean water. Cured material must be removed mechanically.



# شركة أبولو لكيمائيات الأبنية

## Apollo For Construction Chemicals

### Section C: Approval and variations

This method statement is offered by Apollo for construction chemical as a 'standard proposal' for the application of **NASA Guard proof W410**. 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.