



# شركة أبولو لكيمائيات الأبنية Apollo For Construction Chemicals

## NASA Paint ACP Method Statement (One component water based acrylic elastomeric protective anti carbonation coating system)

### 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) Store materials in a cool environment, avoiding exposure to direct sunlight.
- (ii) Keep equipment cool, arranging shade protection if necessary. It is especially important to keep all the application equipment cool, since they will come in direct contact with the material.
- (iii) Try to avoid application during the hottest times of the day, arrange temporary shading as necessary.
- (iv) Ensure the availability of sufficient material, plant and labour available for continuous application process.

#### Equipment

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

<i>Protective clothing</i>	:	<i>Protective overalls Good quality gloves, goggles and face mask</i>
<i>Mixing equipment</i>	:	<i>Mixing stick</i>
<i>Application equipment</i>	:	<i>Brush, roller or airless spray</i>



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## Section B: Application

### 1.0 Surface Preparation

- 1.1 For application over green concrete, it is necessary for the surface of the concrete to be dry, and to use NASAPlast Primer. Otherwise, if NASAPlast Primer is not to be used, it is necessary for the concrete to have cured before the application of NASA Paint ACP.
- 1.2 Surface laitance should be removed by light scabbling or grit blasting or any other suitable means.
- 1.3 All holes and deep cracks should be filled with suitable filler.
- 1.4 All traces of oil, grease, chemical contaminants and extraneous matter should be removed.
- 1.5 Any traces of mould or algae must be removed and the area to be treated with a suitable fungicide or bleach solution.



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### 2.0 Priming for Absorbent Substrates

Notes:

- *NASAPlast Primer does not require dilution.*
- *Ensure 100% coverage of the prepared substrate.*

- 2.1** NASAPlast Primer is a ready to use material that requires thorough stirring with a mixing stick prior to application.
- 2.2** Apply evenly by use with brush or textured roller at a rate of 0.1 - 0.2 litre/m<sup>2</sup>.

### 3.0 Primed Surface Preparation

*Note: It is important to wait for a minimum of 12 hours before the application of NASA Paint ACP.*

- 3.1** The primed substrate should be sound, tack-free, clean and free from dust or other contamination.

### 4.0 Mixing

*Note: NASA Paint ACP does not require dilution when applied with roller or brush. For airless spray 5 - 10% dilution is recommended.*

- 4.1** NASA Paint ACP is a ready to use material that requires thorough stirring with a mixing stick prior to application.

### 5.0 Application

Notes:

- *Ensure 100% coverage of the prepared primed substrate.*
- *Two coat application of NASA Paint ACP is recommended to obtain full carbonation protection especially when used on dark, absorbent and heavily textured surfaces.*

- 5.1** Apply evenly by using a roller, brush or airless spray at a rate of 0.38 litre/m<sup>2</sup> per coat to achieve a 200 microns dry film thickness.
- 5.2** A second coat can be applied after waiting for at least 2 to 4 hours at 35°C and 4 to 6



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hours at 25°C from the application of the first coat at the same rate.

### 6.0 Cleaning

- 6.1 All tools used for NASAPlast Primer must be cleaned **immediately** after application with **Apollo Solvent**. All tools used for NASA Paint ACP must be cleaned **immediately** after application with fresh clean water.



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### 7.0 Storage

7.1 Store at a temperature between 10°C and 35°C in original unopened bags in a controlled dry, cool and shaded area protected from frost, moisture, high temperatures and direct sunlight.

### 8.0 Fire

8.1 NASAPlast Primer is flammable. NASA Paint ACP is nonflammable.

### 9.0 Caution

9.1 NASA Paint ACP /NASAPlast Primer/Apollo Solvent should not be swallowed or come in contact with skin and eyes.

9.2 Suitable protective gloves and goggles should be worn.

9.3 In case of accidental skin contact occurs, rinse thoroughly with clean water and soap, and do not use solvent.

9.4 In case of accidental splashes to the eyes, rinse thoroughly with clean water for 10 minutes and seek medical advice.

9.5 In case of swallowing:

9.5.1 Seek medical attention **immediately**, and

9.5.2 Do not induce vomiting.

## Section C: Approval and variations

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