شركة أبولو لكيماويات الأبنية
Apollo For Construction Chemicals

NASA Bond 100 Method Statement
(PVA multi-purpose bonding agent for cement mixes)

Section A: General Comments

Equipment

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

Protective clothing	:	*Protective overalls*
	:	*Good quality gloves, goggles and face mask*
Preparation equipment	:	*Grit blasting*
Mixing equipment	:	*Mechanical drill mixer with mixing paddle*
	:	*Mixing container*
Application equipment	:	*Stiff brush*

Section B: Application

1.0 Surface preparation

1.1 The substrate should be sound, clean and free from contamination.

1.2 Surface laitance should be removed by light scabbling or grit blasting.

2.0 Mixing

2.1 NASA bond 100 can be manually diluted with water, the dilution rate depends on the intend application of the product.

2.2 As an admixture for sand cement screed flooring, the following mixing proportions are recommended:

Component	Light traffic areas (kg)	High traffic areas (kg)
Cement	100	100
Sand	300	100
Granite (4 - 6 mm)	-	200
NASA bond 100	20	25

Notes:

- The dry components should be mixed together firstly.
- Before adding NASA bond 100, it is recommended to add water to the dry component to achieve semidry mix.

3.0 Application

3.1 As a general purpose bonding agent:

3.1.1 Apply a thin film of NASA bond 100 over the sides of the surfaces to be adhered together.

3.1.2 Allow applied layer to become tacky prior to pressing each side, and then allow curing for 24 hours.

3.2 As a cement screed and plaster bonding agent

3.2.1 Prime the porous substrate using diluted NASA bond 100 (1 part NASA bond 100 to 4 parts water), which should be brushed into the substrates.

3.2.2 Make sure to fill all the pores and voids and allow it to get dry.

3.2.3 Using a brush, apply another coat of diluted NASA bond 100 (1 part NASA bond 100 to 1 part water) to the primed substrate.

3.2.4 The plaster or repair mortar shall be applied while the applied coating is still tacky.

3.3 As a sealer coat and dust proofing

3.3.1 Using a brush, apply diluted NASA bond 100 (1 part NASA bond 100 to 4 parts water) on the surfaces and allow to dry.

4.0 Cleaning

4.1 All tools should be cleaned **immediately** after use with fresh clean water. Hardened materials should be cleaned mechanically.

Section C: Approval and variations

This method statement is offered by Apollo for Construction chemicals as a 'standard proposal' for the application of **NASA bond 100**. 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 chemicals for approval, in writing, prior to commencement of any work. Apollo for Construction chemicals will not accept responsibility or liability for variations to the above method statement under any other condition.