

Keybond Method Statement (PVA bonding agent for cement mixes and concrete repair)

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 Keybond 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
Keybond	20	25

Notes:

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



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3.0 Application

3.1 As a general purpose bonding agent:

- 3.1.1 Apply a thin film of Keybond 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 Keybond (1 part Keybond 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 Keybond (1 part Keybond 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 Keybond (1 part Keybond 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 DCP as a 'standard proposal' for the application of **Keybond**. 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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