



BluCem API0

ACRYLIC CONCRETE PRIMER



BluCem API0 is a one component liquid which requires only the addition of water to form a bond promoting liquid primer.

BluCem API0 is a spray or roll applied, low cost product suitable for civil engineering applications. BluCem API0 incorporates EVA polymers to form a liquid primer which is high bond, suitable for indoor and outdoor applications and is potable water use approved in accordance with AS/NZS 4020: 2005.

Application Advantages

- Low viscosity
- Long pot life
- Easy to apply

Lifecycle Advantages

- High bond strength
- Indoor and outdoor applications
- Potable water use approved

About the Product

BluCem API0 improves bond between layers of cementitious products by sealing the surface and preventing water from being lost at the contact interface. This allows full hydration of subsequent layers at the point of bonding and ensures full strength development. The polymer molecules also improve ductility of the contact zone and ensure deeper penetration of the interfacing particles.

Application Solutions

- Concrete repair
- Concrete curing
- Cold joint bonding

Project Specification Clause

ACRYLIC CONCRETE PRIMER - The bond promoting liquid primer used for this project shall be a one component liquid which requires only the addition of water to form a durable bond promoting product. It shall be a pre-blended product that has independent testing to validate the performance outlined in the technical data table on the following pages. BluCem API0 manufactured by Bluey Technologies or equivalent shall be accepted.

Project Examples

Airport construction, bridge repair, building repairs, dam construction and repair, factory floors, car park decks, jetty construction and repair, concrete structures, rail construction, rail repairs and shutdowns, retail outlets, retaining walls, road repairs, runway repairs and shutdowns, sea wall repair and maintenance, sewer repair and lining, tunnel lining, warehouse floors, wharf repair and construction.





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Application Specification

CONCRETE PREPARATION

- 1.1 All defective host substrate must be removed prior to application. Defective material includes cracked or structurally weakened surfaces and also chloride contaminated and carbonated concrete. A concrete corrosion expert must be consulted for critical projects or structural applications.
- 1.2 Host concrete must be roughened and aggregate exposed to ensure good bond. High pressure water blasting or mechanical chipping of the surface is recommended for this purpose. All surfaces must be free of dust, oils and surface contaminants. This may require steam cleaning or high pressure water blasting if site conditions permit.
- 1.3 Application of grout must commence within 4 hours of primer application.

MIXING

- 2.1 Primer should be prepared by mixing 1 part BluCem API0 to 4 parts clean water for substrate priming. Add approximately 5 parts cement powder to achieve desired consistency if using as a steel reinforcement primer.

APPLICATION

- 3.1 The primer should be worked into the surface of the concrete to ensure thorough coverage. Any ponding of material shall be mopped up to ensure uniform minimum thickness. The same primer mix may be applied to steel reinforcement if the reinforcement is to be exposed to the atmosphere for several days prior to repair mortar application. The repair mortar or grout mix must be applied on to the slurry primer within 2 hours of application. If the slurry primer is left exposed for longer than 2 hours on the concrete surface it must be removed and re-applied prior to continuing.



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Product Data

Please refer to Important Notice on following page

Packaging	4kg and 20kg
Water Addition	4.0 litres per 20kg bag
Coverage:	25m ² /litre of undiluted primer
Application Thickness	Refer to Bluey for advice and approval on pour thicknesses with dimensions exceeding 100mm

TESTED CHARACTERISTIC	RESULT
Specific Gravity	1.07g/cm ³
Solids Content	55%
Drying Time	~2 - 3 hours @ 20°C
Application Temperature	>10°C



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Contact Bluey

BRISBANE (HEAD OFFICE)

Bluey Technologies Pty Ltd
Unit 8, 53 Metroplex Avenue, Murarrie Qld 4172 Australia
Ph +61 7 3399 3635 Fax +61 7 3899 9822 brisbane@bluey.com.au

SYDNEY

Bluey Technologies Pty Ltd
Unit 3, 35 Higginbotham Road, Gladesville NSW 2111 Australia
Ph +61 2 9807 2207 sydney@bluey.com.au

MELBOURNE

Bluey Technologies Pty Ltd
PO Box 170, Tullamarine VIC 3043 Australia
Ph +61 3 9826 5570 melbourne@bluey.com.au

PERTH

Bluey Technologies Pty Ltd
Ph +61 402 372 308 perth@bluey.com.au

AUCKLAND

Bluey Technologies
Ph +64 21 102 4797 nz@bluey.com.au

www.bluey.com.au

BLUEY ASIA PACIFIC DISTRIBUTOR

QUICSEAL CONSTRUCTION CHEMICALS PTE LTD

No.7 Eunos Avenue 8A, Eunos Industrial Estate, (S)409460 Singapore
Ph +65 6742 4466 Fax +65 6741 4666
www.quicseal.com

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