



# PGH Stone Cladding

## Recommendations to Fireplace Surround Installations

### SCOPE

LATICRETE recommendations for the installations of PGH Stone Cladding to internal and external concrete, cement masonry (CMU) and brick masonry fireplace surrounds in residential dwellings.

### NOTES TO SPECIFIER

Install PGH Stone in accordance with manufacturer's instruction, LATICRETE specifications, technical data sheets, product data sheets and AS3958, AS3740 and AS4654.1 & 2.

### INSTALLATION MATERIALS

**Latex-Portland Cement Thick Bed Mortar (for wall "scratch" and "render coats"):**

- [LATICRETE® 3701 Mortar Admix](#) gauged with
- [LATICRETE 226 Thick Bed Mortar](#).

**Latex-Portland Cement Skim Mortar (for shallow levelling & skimming):**

- [LATICRETE 254 Adhesive](#)

**Waterproofing/Crack Isolation System:**

- [LATICRETE HYDRO BAN®](#)
- [LATICRETE HYDRO BAN Fillet & Sealant](#) and
- [LATAPOXY® Moisture Shield](#)

**Latex-Portland Cement Thin Bed Adhesive:**

- [LATICRETE MVIS® Masonry Veneer Mortar](#) or
- [LATICRETE 254 Adhesive](#)

**Latex-Portland Cement Grout:**

- [LATICRETE WIDE JOINT XL](#)

**100% Silicone Caulk:**

- [LATICRETE LATASIL™](#) (and [LATICRETE LATASIL 9118 Primer](#))

All installation materials shall be supplied by LATICRETE Australia Pty Ltd; Telephone: 1800 331 012; Fax: +61 7 3865 2250; E-mail: [technicalservices@laticrete.com.au](mailto:technicalservices@laticrete.com.au); Website: [au.laticrete.com](http://au.laticrete.com).

Stone cladding to be supplied by PGH Bricks & Pavers™. 75 Townson Road, Schofields NSW 2762. Web: [www.pghbricks.com.au](http://www.pghbricks.com.au) Ph: (02) 9582 6807. See the PGH Stone website for the relevant information regarding the application.

### SUBSTRATE PREPARATION

The installer is to examine substrates and advise the Builder and Architect of all existing conditions and surface contamination, which will require correction, before the work commences. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed  $L/720$  where  $L$ =span length. Before starting, substrates are to be cleaned to remove concrete curing compounds, sealers, soil, mortar, dirt, dust, paint, etc. As required, the substrate shall be prepared by whatever WorkSafe method deemed necessary by the contractor to prepare the concrete surface to Concrete Surface Profile (CSP3). After removal of the any contamination, curing compounds and sealers, all rough, uneven or "out-of-plumb" surfaces must be made "plumb and true" to within 6mm in 3m from the required plane and 1.5mm in 300mm from the high spot using LATICRETE® 226 Thick Bed Mortar gauged with 3701 Mortar Admix or a LATICRETE Skim Coat. Dry and dusty concrete and masonry surfaces must be water washed and excess water removed just prior to the application of LATICRETE installation materials. For sheeted substrates, LATICRETE skim coats may be used for shallow levelling.

### MOVEMENT JOINTS

Existing joints in substrate are to be carried through the stonework and conform to architectural details. Movement joints must be installed where stone abuts restraining surfaces, such as perimeter walls, curbs, columns, corners, etc. Expansion joints must be installed at all "changes of plane" in the stonework. Refer to AS3958 for industry recommendations. The responsibility for calculating the actual spacing and size of the movement joints shall be by the architect/engineer. Use LATICRETE LATASIL™, with LATASIL 9118 Primer. Minimum movement joint width shall be 6mm. Use polyethylene backer rods and bond breaker tape as required. See [TDS-1252 Why Are Movement Joint Needed?](#) For more information.

## MIXING

Mix according to printed product instructions included with each LATICRETE product package.

## WATERPROOFING /CRACK ISOLATION MEMBRANE INSTALLATION

Note: CMU and brick masonry substrates shall be skimmed or rendered prior to the application of membrane.

Use LATICRETE HYDRO BAN System where a waterproof installation is required. Install HYDRO BAN System in compliance with current revisions of AS3740 & AS4654.1 & 2. Review the installation and plan the application sequence. Stir before using. Follow [TDS 1003 – HYDRO BAN Installation Instructions for Australia](#) for detailed procedures. Provide protection for newly installed membrane. Cladding may be installed as soon as the membrane is dry.

## STONE CLADDING INSTALLATION BY THIN BED METHOD

Clean and hydrate stone back with a damp sponge prior to fixing. Use the appropriate trowel notch size to ensure proper bedding of the stone cladding selected. Work the adhesive into good contact with the substrate and comb with notched side of trowel. Spread only as much adhesive as can be covered while the adhesive surface is still wet and tacky. Target 100% coverage of adhesive to the stone backs and substrate. Work shall be staged to allow drying time before adding excessive weight from progressive works. This will vary on site conditions and substrate type. Contact LATICRETE for discussion. Allow installation to set 24 hours at 21° C. Clean excess adhesive from stone face and joints between pieces. Minimum adhesive thickness 3mm.

## GROUT INSTALLATION

Allow stone installation to cure a minimum of 24 hours @ 21°C. Verify grout joints are free of dirt, debris and spacers. Sponge or wipe dust/dirt off PGH Stone face and remove any water standing in joints. Where required, apply STONETECH Grout Release to help with clean-up and reduce staining. Fully pack joints and dress to the desired finish and depth. Inspect joints for pinholes/voids and repair them with freshly mixed grout. The day after installation grout haze shall be removed using a detergent solution. Do not use acid cleaners. See product data sheets, how to guides and technical data sheets for more complete information as required.

## PROTECTION

The Contractor is to take precautions to protect the finished work from damage by other trades. Protect exterior veneer installations from exposure to rain for a minimum of 7 days at 21°C.

## WEATHER NOTE

The curing of installation materials is retarded by low temperatures and accelerated by high temperatures. Manage site conditions to allow work in acceptable temperatures.

Manage or mitigate conditions that expose tiling to thermal shock. Large, instantaneous variation in temperature can induce damaging thermal shock in the tiling system and should be avoided.

## CLEANING & SURFACE SEALING

Stone shall be cleaned and sealed with LATICRETE STONETECH Sealers and Cleaners as appropriate for the installation. Consult the product data sheet and technical guides prior to use. For further information contact [stonetech@laticrete.com.au](mailto:stonetech@laticrete.com.au) Test prior to use in a small unobtrusive area. Clean and re-seal surface every 3 -5 years depending on usage and site conditions.

LATICRETE Technical Services provides review of job specifications and plans, project detail planning and review, and provides answers to questions concerning the installation of stone cladding. Call toll free on 1800331012. E-mail:

[technicalservices@laticrete.com.au](mailto:technicalservices@laticrete.com.au) Internet: [www.laticrete.com.au](http://www.laticrete.com.au) To obtain a copy of detailed product information, most recent revisions of LATICRETE data sheets, and answers to installation questions, E-mail: [technicalservices@laticrete.com.au](mailto:technicalservices@laticrete.com.au)

This recommendation contains no design information beyond the use of LATICRETE materials.

These materials are not suitable for installations that are exposed to direct heat. Contact LATICRETE where a fire rated façade system is required.

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