



# Porcelain and Stone Tiles with Fabricated Drop Edges.

## Installation Recommendations

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### SCOPE:

These general recommendations apply to installations of Porcelain Tile and Non-Moisture Sensitive Stone with fabricated drop edges, to concrete swimming pool copings, stair treads and the like. Furnish all labour, materials and tools to complete the works. All works shall be carried out by experienced qualified trades.

**Tiles/Stone:** Porcelain tile and stone with drop edges are as supplied by: Europe Imports. Unit 8 & 9/360 Vardys Rd, Kings Park NSW 2148. Telephone 1300 387 673.

### NOTES TO SPECIFIER:

Contact LATICRETE for a custom specification.

Install work in accordance with the manufacturer's instructions, LATICRETE specifications, technical data sheets, product data sheets and AS3958.

### MATERIALS (15 Year System Warranty):

**Latex-Portland Cement Slurry Bond Coat:** LATICRETE® 254 Adhesive.

**Latex-Portland Cement Thick Bed Mortar & Renders:** LATICRETE® 3701 Latex 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® 254 Adhesive

**Latex-Portland Cement Medium Bed Adhesive:** LATICRETE® 4237 Latex Additive gauged with LATICRETE® 211

**Epoxy Thin Bed Adhesive:** LATAPOXY® 300 Epoxy Adhesive

**Epoxy Grout:** LATICRETE SPECTRALOCK® PRO Premium Grout or LATAPOXY® SP100 Grout

**100% Silicone Caulk:** LATICRETE® LATASIL™ (and LATICRETE LATASIL 9118 Primer)

Installation materials to be supplied by LATICRETE Australia Pty Ltd; Telephone: 1800 331 012; E-mail:

[technicalservices@laticrete.com.au](mailto:technicalservices@laticrete.com.au); Website: [www.laticrete.com.au](http://www.laticrete.com.au)

For this recommendation, all tiles and stone shall be deemed not moisture sensitive, dimensionally stable and fit for purpose for the proposed installation by the tile manufacturer. Contact LATICRETE where the tile maybe moisture sensitive or dimensionally unstable.

Installation of tile and stone copings is not suitable for fibreglass pools and surfaces.

### PREPARATIONS:

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. Before starting, substrates are to be cleaned to remove concrete curing compounds, sealers, soil, mortar, dirt, dust, paint or anything that may inhibit bond. Curing compounds, laitance and sealers must be removed by grit / sand blasting, high-pressure hydro blasting, diamond wheel grinder with dustless vacuum attachment, or equivalent methods of mechanical scarifying deemed suitable by the contractor. After removal of contamination, curing compounds and sealers, all rough, uneven or "out-of-plumb" surfaces must be made "plumb and true" to within 3mm in 3m from the required plane and 1.5mm in 600mm from the high spot using LATICRETE renders, screeds or skim coats. Dry and dusty concrete and masonry surfaces must be water washed and excess water removed just prior to the application of LATICRETE installation materials.

### EXPANSION AND CONTROL JOINTS:

Existing joints in substrate are to be carried through the tile work and conform to architectural details. Expansion joints must be installed where tile abut restraining surfaces, such as perimeter walls, curbs, columns, corners, etc. Expansion joints must be installed at all "changes of plane" in the tile & panel work. Refer to AS3958 for industry recommendations. The responsibility for calculating the actual spacing and size of the expansion joints shall be by the architect/engineer. Use LATICRETE LATASIL™, with LATASIL 9118 Primer. Minimum movement joint width shall be 6mm.

### MIXING:

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

**PROTECTION** – Provide protection for packaging and against exposure to rain or other sources of water.

### DIMENSIONAL SURFACE CORRECTION:

Dimensional surface correction - is necessary if concrete surface is not finished accurately to meet levelness or flatness tolerances for direct application of the tile coping unit and drop edge using the thin bed methods of application. Render, screed or skim work shall be in accordance with LATICRETE technical data sheets and specifications to correct surface flatness to the required plane.

### WATERPROOFING /CRACK ISOLATION MEMBRANE INSTALLATION:

Ensure surfaces are flat, smooth, plumb and dry before applying membrane. Install LATAPOXY Moisture Shield under all installations of HYDRO BAN Membrane. Use HYDRO BAN Fillet & Sealant to all transitions. Follow TDS 1003 for installation procedures. Detail HYDRO BAN over existing, non-structural, hairline cracks ( $\leq 3\text{mm}$ ) in the substrate.

### FABRICATED DROP EDGE COPING INSTALLATION:

**NOTE:** Minimum final adhesive bed thickness is 3mm for tile.

**NOTE:** 4237 Latex Additive mixed with 211 can be used for final bed adhesive thickness up to 15mm.

Surface temperature must be between 4 - 32°C. Use the appropriate trowel notch size to ensure proper bedding of the selected tile. Back notch trowel all tile and drop edge. 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% Adhesion contact that is free from any voids with special attention being paid to the bedding of the drop edge portion of the tile. Fabricated coping materials shall not be installed where it is not possible to adhere and solidly bed the drop edge face within the bed thickness capacity of the adhesive.

Allow installation to set 24 hours at 21° C. Clean excess adhesive from tile faces and joints as the work progresses.

### GROUT INSTALLATION:

Allow tile 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 tile face and remove any water standing in joints. Surface temperature must be between 16 - 32°C for epoxy grout. Check for pigment staining and use 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. Within 24 hours, check for remaining haze and remove it with warm soapy water. Do not use acid cleaners.

### JOINT SEALANT:

Prime all movement joints with LATASIL 9118 Primer before applying LATASIL Silicone Sealer. Use polyethylene backing rods and bond breaker tapes as required.

### PROTECTION:

Protect the tile installation from traffic and adverse site conditions till the installation has cured.

### WEATHER NOTE:

The curing of waterproof membranes, tile fixing adhesives and grouts, are retarded by low temperatures and accelerated by high temperatures. The setting of epoxy will stop in low temperatures and rapidly set in high

temperatures. When hot, work in shaded environments, cover areas with light coloured tarps, and work at cooler times of days when scheduling allows. When cold, work in protected heated environments. Heating the substrate is more effective than heating the open area. Finished work should be protected for an extended period.

#### **CLEANING & SURFACE SEALING:**

Porcelain & stone coping 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.

LATICRETE Technical Services provides review of job specifications and plans, project detail planning and review, and provides answers to questions concerning the installation of Porcelain and Stone Copings. 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 for answers on installation questions. These recommendations do not provide any design information beyond the use of the installation materials.

Contact LATICRETE for a custom specification.

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