



# GNS Glass Mosaics Tiles to Concrete Pools

## Installation Recommendations



### SCOPE

These general recommendations apply to the immersed installation of the GNS series of 20x20 mm rear mount, glass mosaic tiles, (Pearl, Gemstone, Fusion, Crystal, Stella, Pastello and Technique) to concrete swimming pools.

### NOTES TO SPECIFIER

Install glass tiles in accordance with manufacturer's instruction, LATICRETE specifications, technical data sheets, product data sheets and AS3958.

### INSTALLATION MATERIALS (25 YEAR SYSTEM WARRANTY)

**Latex Portland Cement Slurry Bond Coat and skims:** LATICRETE 254 Adhesive or LATICRETE 4237 Latex Additive mixed with LATICRETE 211 (white for masking).

**Waterproof & Crack Suppression Membrane:** LATICRETE HYDRO BAN®, LATICRETE Fillet & Sealant and LATAPOXY® Moisture Shield

**Epoxy Adhesive:** LATAPOXY 300 Adhesive or LATAPOXY SP-100 Coloured Adhesive.

**Epoxy Grout:** LATAPOXY SP-100 Grout

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

Installation materials to be supplied by LATICRETE Australia Pty Ltd. 29 Telford St, VIRGINIA QLD 4014; 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 their tile mounting systems are deemed to be, dimensionally stable, not moisture sensitive, fit for purpose for immersed installations and suitable for the proposed application by GNS Ceramics.

### 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 whatever methods 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 5mm in 3m from the required plane and 1.5mm in 300mm 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.

### MOVEMENT JOINTS

Existing joints in substrate are to be carried through the tile work and conform to architectural details. Movement 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. Mix with a slow speed mixer to a smooth, stiff consistency. Conditions materials for use prior to installation.

**PROTECTION** - Provide protection for packaging and newly installed work against exposure to rain or other sources of water.

## WATERPROOFING/CRACK SUPPRESSION MEMBRANE

Ensure surfaces are flat, smooth, plumb and dry before applying membrane. Install LATAPOXY Moisture Shield under all immersed installations of HYDRO BAN Membrane. Follow TDS 1003 for installation procedures. Provide protection for newly installed membrane.

## GLASS MOSAIC TILE INSTALLATION BY THE THIN BED METHOD

**NOTE:** Minimum final bed thickness is 1.5mm for mosaic tile.

Use the appropriate trowel notch size to ensure proper bedding of the selected tile. Work the adhesive into good contact with the substrate and comb with notched side of trowel. Then make smooth the adhesive notches with the flat side of the trowel, to present with a continuous, even thickness, and consistent colour coat of adhesive. 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 substrate. Allow installation to set 24 hours at 21° C. Clean excess adhesive from tile faces and joints as the work progresses.

## EPOXY 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. Fully pack joints and dress to the desired finish and depth. Inspect joints for pinholes/voids and repair them with freshly mixed grout. Do not allow epoxy film to dry on the face of the tile, check for remaining haze and remove it with warm soapy water. Do not use acid cleaners. System warranties are conditional on the use of a LATICRETE® trained epoxy grouter.

## PROTECTION

Protect the tile installation from traffic and adverse site conditions until the installation has cured. The Contractor is to take precautions to protect the work from damage by other trades. Protect tile installations from exposure to rain for a minimum of 7 days at 21°C. Fill pool after 10 days curing 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.

LATICRETE Technical Services provides review of job specifications and plans, project detail planning and review, and provides answers to questions concerning the installation of tiles to stainless steel surfaces. 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)

These recommendations are general in nature. Contact LATICRETE for a custom specification. This document contains no design information beyond that related to the correct use of the installation materials.

© 2023 LATICRETE AUSTRALIA Pty Ltd. The rights to copy, distribute, and utilize for commercial purposes is specifically granted to Brick Facing manufacturers, Architects, Engineers, and Specifications Writers.