



Ezarri JointPoint® Glass Mosaic Tile Installation in Immersed Installations. 10 Year System Warranty.

This specification covers the installation of Ezarri JointPoint® Glass Mosaic tiles inside of, and around concrete Swimming Pools. Refer to Architectural Drawings and Details for specific installation materials & methods for each specific area and application.

WITNESS POINTS:

Give sufficient notice, so inspections can be made by the contractor in the presence of the builder, specifier, owner or any other persons deemed relevant, if required.

1.0 GENERAL:

1.1 All works shall be carried out by experienced qualified trades.

2.0 SCOPE OF WORK:

2.1 Furnish all labour, materials and equipment necessary to complete the installation of Ezarri JointPoint Glass Mosaic Tiles, in a chemical, shock resistant, grouting and fixing materials, as specified herein and where indicated in drawings. Install thin, load bearing waterproof membranes, as specified and indicated in drawings if required.

NOTES TO SPECIFIER:

2.2 This is a total system. Call out products by name, number and application to insure that specifications do not differ from manufacturer's instructions.

2.3 The following shall be inserted in the Concrete Section:

"No sealers, crystalline waterproofing additives or curing compounds shall be used on concrete slabs which are to be covered with tile. Concrete slabs shall be covered and wet cured for a minimum of seven (7) days. Allow new concrete slabs to cure before the installation of mortars, waterproof membrane or tile. Areas that are to receive Glass Mosaic Tile work, installed by the thin bed method shall; have a wood float finish or open pored steel float finish; be true to within 5 mm in 3 m and 1.5mm in 300mm when measured from the high spot; and pitched to drains where required. Areas requiring fill, patching or levelling shall be prepared / rendered / screeded using LATICRETE 3701 Mortar Admix / LATICRETE #226 Thick Bed Mortar Mix in accordance with the manufacturer's instructions. Gypsum or asphalt based levelling compounds shall not be permitted. No polyvinyl (PVA) acetates shall be permitted in any substrate to receive tile. The surface, which is to be covered, shall be left clean, free of dust, plaster, sealer or curing compounds and form oil. Any contamination shall be removed by the Contractor who applied the material."

2.4 Tile and there, fixing and grouting mortars do not constitute a waterproof barrier. Specify & detail LATICRETE Hydro Ban Liquid Applied Waterproof Membrane where a waterproof installation is required.

2.5 Swimming pool copings and surrounding areas should be constructed of impervious finishes and fixing systems to help reduce the incidence of efflorescence. Weather bars and barriers should also be used at coping and surrounding perimeters to prevent the ingress of water from under adjacent pavements from entering into or under the pool and associated tiling system.



2.6 Unless otherwise noted in this document, product data sheets, how to guides, technical data sheets and other LATICRETE guidelines, all work should be in accordance with AS3958.1 & 2.

2.7 This specification may not include all the information required to complete the works. Contact LATICRETE for any additional information.

2.8 Consult the relevant, current product data sheets and how to guides for more complete and installation information on products specified in this document.

2.9 Concrete or other masonry to receive a tile installation system should not have internal moisture content greater than 75% relative humidity as measured with moisture probes.

3.0 MATERIALS:

3.1 All tiles, where called for, shall be Ezarri JointPoint mounted Glass Mosaic Tiles, from Europeimports Pty Ltd, Unit 3, 6 Gladstone Street, Castle Hill NSW 2154. Telephone 1300 392744

3.2 Renders, Screeds & Concrete patching materials shall be: LATICRETE 3701/226 Latex Portland cement Mortar.

Tile adhesives materials shall be: LATICRETE 4237 Latex gauged with LATICRETE 290 Floor N Wall Adhesive; or LATICRETE 4237 Latex gauged with LATICRETE PermaColor or; LATICRETE 335 Premium Flexible Tile Adhesive. Consult LATICRETE for information on best option.

Tile grout materials shall be: LATICRETE PermaColor Grout.

Waterproofing & crack suppression materials shall be: LATICRETE Hydro Ban Waterproof Membrane

All waterproofing, renders & screed mortars, tile fixing and grouting materials shall be as provided by LATICRETE PTY LTD, 29 Telford Street, VIRGINIA, QLD 4014, Australia. Telephone: 1800331012.

Email: technicalservices@laticrete.com.au Web: www.laticrete.com.au

Installation shall be in strict accordance with manufacturer's instructions.

3.3 The bedding and grouting mortars shall be weather, frost, shock and chemical resistant.

3.4 The finished tile adhesive and grout materials shall be resistant to chlorine, bromine, urine, dilute acid, dilute alkali, sugar, brine and food waste products.

3.5 All installation materials shall be compatible and from one manufacturer.

3.6 All materials shall be delivered to the job site in the original factory containers with the manufacturer's identification on each package. The addition of water or other materials to dilute the installation materials on the job site will not be permitted.

4.0 APPROVALS AND SAMPLES:

4.1 Provide mock-up of each type/style/finish/size/colour of tiles, trim unit and threshold, along with respective installation adhesives, mortars, grouts and other installation materials for assessment.

5.0 HANDLING AND STORAGE OF MATERIALS:

5.1 Handle and store tile in a manner to avoid contamination & intrusion of foreign matter that may inhibit bond.



5.2 Handle, store, mix and apply proprietary installation materials in strict compliance with the manufacturer's instructions.

5.3 The contractor shall take precautions to protect the Mortar Additives, Admixtures from freezing or from excessive heat.

6.0 MORTAR, GROUT MIXES & WATERPROOF MEMBRANES:

6.1 Latex Portland Cement Renders, Levelling Beds and Scratch Coats:

8 x 20 kg bags LATICRETE Thick Bed Mortar Mix 226

20 litres LATICRETE 3701 Mortar Admix (Adjust quantity of liquid to obtain proper consistency)

6.2 Latex Portland Cement Thick Bed Mortar and Screeds:

10 x 20 kg Bags LATICRETE Thick Bed Mortar Mix 226

20 litres LATICRETE 3701 Mortar Admix (Adjust quantity of liquid to obtain proper consistency)

6.3 LATEX PORTLAND CEMENT SLURRY BOND COAT

2 x 20 kg Bags LATICRETE 290 Floor N Wall Adhesive

19 litres LATICRETE 4237 Latex Admix

Or

20 kg Bags LATICRETE 335 Premium Flexible Adhesive

6.4 Latex Portland Cement Adhesive

19 litres LATICRETE 4237 Latex Thin Set Admix

4 x 20 kg bags LATICRETE 290 Floor N Wall Adhesive

or

19 litres LATICRETE 4237 Latex Thin Set Admix

8 x 10 kg bags LATICRETE PermaColor.

or

20 kgs LATICRETE 335 Premium Flexible Tile adhesive.

6.5 Grout

10 kg LATICRETE PermaColor Grout. (Select from 40 colours)

6.6 Waterproof & Anti-fracture Membrane:

19 litre pail LATICRETE Hydro Ban Waterproof Membrane.

7.0 PREPARATION & CLEANING:

7.1 Inspection - Prior to commencing the installation, the contractor shall examine the areas to be covered and advise the Main Builder and Architect of any existing conditions or surface contamination, which will require correction before the work commences. Substrate must be clean & free from form oil, curing compounds, laitance, dirt or any other foreign material that may inhibit bond.

7.2 Preparation - As required, the concrete substrate shall be prepared/processed by grit blast, scarifying, sand blasted, hydro blasted or by whatever method deemed by the contractor necessary to prepare the concrete surface: to expose the fine aggregate; and to present with a sound, clean open pored surface, prior to installing render, waterproofing or adhesives.



7.3 Cleaning - As required the concrete substrate shall be cleaned after surface preparation and processing by high pressure water cleaning to clean the surface dirt and remove contamination or weakened surface layers. Any approved cleaning agents must be completely removed, neutralized and rinsed.

8.0 WALL PATCHING, PLASTERING or RENDERING:

8.1 Dimensional surface correction is necessary if concrete is not finished accurately to meet levelness or flatness tolerances for direct application of the mosaic using the thin bed methods of application.

8.2 LATICRETE 226 Thick Bed Mortar gauged with LATICRETE 3701 Mortar Admix shall be used as a wall render; it should be mixed to a plastic consistency and applied no greater than 12mm thick per application (lift), scratch coat between lift. Carry any underlying movement joints to the surface. As a plaster/render mix, slurry bond coats are not required.

8.3 LATICRETE 226 Thick Bed Mortar gauged with LATICRETE 3701 Mortar Admix shall be used for mortar beds or screeds and is normally applied from featheredge – 50mm thick and mixed to a semi-dry consistency and placed over a latex/cement slurry bond coat and levelled between screed boards and thoroughly compacted.

8.4 Before placing the mortar bed, apply the LATICRETE Portland cement slurry bond coat nominally 2mm thick. Place the mortar bed while the slurry bond coat is still wet and tacky. Do not apply mortar bed over skinned or dried bond coat. Re apply bond coat if it has skinned or dried prior to applying mortar bed over.

8.5 See product data sheets, how to guides and technical data sheets for more complete information as required.

9.0 MIXING:

9.1 Mixing: Mix according to printed product instructions included with each product package. Mix only long enough to wet out the batch. Do not over-mix.

10.0 INSTALLATION OF WATERPROOF MEMBRANE:

Note: As required waterproof membranes are installed before tile is installed inside of swimming pools that are above occupied areas and as detailed on drawings.

10.1 Before starting, surface to be covered shall be cleaned to remove soil, dust, curing compounds, form oil, sealants, or grease. Cleaning shall be by means of high-pressure washing of previously prepared or built surfaces.

10.2 Surface to be waterproofed shall be dry, plumb and true within 5 mm in 3 m and 1.5mm in 300mm from the high spot and shall be dry and have a compact, flat wood float finish. Designers may require tighter flatness tolerances.

10.3 Surfaces to be waterproofed shall be dry and of a moisture content as specified in the Hydro Ban product data sheet. In cases where moisture vapour transmission rates (MVT) are excessive, LATAPOXY 312 Moisture Shield may be suitable to reduce MVT to an acceptable level.



10.4 Mosaic tile may be installed directly over the membrane as soon as it is dry.

10.5 Flood test critical installations. Allow membrane to cure fully, usually 7 days at 21°C. Cold weather installations will require a longer cure time.

10.6 See product data sheets, how to guides and technical data sheets for more complete information as required.

11.0 INSTALLATION OF TILE BY THE THIN BED METHOD:

11.1 The LATICRETE Adhesive shall be applied with a notched trowel using a scraping motion to work the material into good contact with the surface to be covered. A trowel having notches of sufficient size to optimize bedding is recommended. On site test should be carried out to determine the appropriate trowel size to target no voids in the adhesive bed, full bedding of the tile and complete adhesive distribution once the tiles are installed.

11.2 Only as much Adhesive shall be applied as can be covered within 5 to 15 minutes or while adhesive surface is still wet and tacky. Tile shall then be set in place manipulated to insure 100% full bedding (this means full contact of adhesive to tile & full contact of adhesive to substrate) and a true surface. Tile shall be aligned to show uniform joints and then allowed to set until firm using the following method.

1. Using the flat side of an appropriately sized V-notch trowel, burnish the adhesive firmly in the substrate.
2. With additional adhesive and the appropriately sized v-notch trowel, comb the adhesive horizontally to the required depth.
3. Then using the flat side of the trowel, flatten the notches to produce a smooth consistent adhesive layer.
4. Apply the sheeted mosaics into the adhesive layer using light and even pressure to establish initial contact.
5. To achieve a bedded uniform, flat surface, tap in place with mallet and beating block.
6. Repeat process with adjacent sheets using the beating block to align sheets as the work progresses.
7. Excess adhesive must be cleaned from the surface of the tile with a wet cloth or sponge while the adhesive is fresh.

11.3 See product data sheets, how to guides and technical data sheets for more complete information as required.

12.0 EXPANSION, MOVEMENT AND CONTROL JOINTS:

12.1 Existing joints in subsurface must be carried through tile work and shall conform to architectural details.

12.2 Movement joints shall be installed where tile, screeds and renders abut restraining surfaces, such as perimeter walls, curbs, penetrations, columns, corners, etc. Expansion joints shall be installed at all "changes of plane" in the tile work, renders and screeds. Refer to Australian Standards for more details.

12.3 Refer to architects & engineers drawings for full details on expansion, control, isolation or movement joints. (Do not tile, screed or render over construction joints).



Notes to specifier

The responsibility for calculating the actual spacing and size of the expansion joints shall be by the architect/engineer. The Optimum ratio of joint layout, length to width, is 1:1, and shall not be greater than 2:1.

13.0 GROUTING AND POINTING JOINTS:

13.1 Joints shall be grouted or pointed with LATICRETE PermaColor Grout as required. Use LATICRETE SpectraLOCK Pro Grout where chemical resistance is required.

13.2 Ensure tile adhesive and bedding layers are dry. Remove debris, spacers, adhesive or anything that may inhibit the installation of the grout to the required depth.

13.2 Joints shall be packed full and free of all voids and pits. (Tool or rake as specified).

13.3 Excess grout shall be cleaned from the surface with water and a damp sponge as the work progresses, while grout is fresh and before it hardens.

13.4 The day after installation grout film or haze shall be removed using a detergent solution.

13.5 See product data sheets, how to guides and technical data sheets for more complete information as required.

14.0 PROTECTION:

14.1 During installation of the waterproof membrane, screeds, renders, tiling and grouting the contractor shall take precautions to protect the work from varying adverse weather conditions.

14.2 The contractor shall take precautions to protect the finished work from damage by other trades. Do not allow construction traffic on fresh grout joints. Allow the grout to cure for a minimum of 7 days before steam cleaning or using aggressive cleaning techniques.

14.3 Allow grout to cure for 14 days at 21 C before filling the pool.

Cold Weather Note: The curing of; waterproof membranes, tile fixing adhesives and grouts, are retarded, by low temperatures. Finished work should be protected for an extended period of time.

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