General Fixing Specification for Ceramic or Glass Mosaic Tile in Immersed Installations over Polyester or Fibreglass surfaces. 10 Year System Warranty

This specification covers the installation of ceramic or glass tiles to polyester 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 ceramic or glass tiles, in a chemical, shock resistant, grouting and fixing materials, as specified herein and where indicated in drawings.

NOTES TO SPECIFIER:

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

2.3 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.

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

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

2.6 Follow all occupational health and safety and site safety procedures. Refer to the relevant material safety data sheets for all safe handling information on the products nominated in this specification.

2.7 For the purpose of this specification all tile and their mountings are deemed to be fit for purpose and suitable for the proposed immersed or above water application by the manufacturer. Contact LATICRETE where tiles may be transparent.

2.8 Surfaces must be structurally sound, stable and rigid enough to support ceramic and glass tile work. Substrate deflection under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed tile installations.

2.9 Contact LATICRETE for a Custom Specification

3.0 MATERIALS:
3.1 All tiles, where called for, shall be as supplied by………………………………………………………………….

3.2 Tile adhesives materials shall be: LATAPOXY 300 Epoxy Adhesive or LATAPOXY SP-100 Epoxy Grout where a coloured adhesive is required
Tile grout materials shall be: LATICRETE SPECTRALOCK Pro Premium Grout or LATAPOXY SP-100 Epoxy Grout.

All tile fixing, grouting and movement joint materials shall be as provided by LATICRETE Australia Pty Ltd. 29 Telford Street, VIRGINIA, QLD 4014, Australia. Telephone: 1800331012.
Email: technicalservices@laticrete.com.au Web: au.laticrete.com
Installation shall be in strict accordance with manufacturer’s instructions.

3.3 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.

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 condition the epoxy products prior to beginning the works.

6.0 ADHESIVE, GROUTS & SEALANTS:

6.1 EPOXY ADHESIVE
LATAPOXY 300 Epoxy Adhesive or LATAPOXY SP-100 Epoxy Grout where a coloured adhesive is required.

6.2 EPOXY GROUT:
LATICRETE SPECTRALOCK PRO Premium Grout or LATAPOXY SP-100 Epoxy Grout.

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 oil, wax, dirt or any other foreign material that may inhibit bond.
7.2 Preparation - As required, the polyester substrate shall be prepared by mechanical cleaning. Use a nominal 120 grit sandpaper to de-gloss the surface and remove any waxes, oils or contamination. There is no need to sand off or remove gel coatings.

7.3 Cleaning - As required, prior to the fixing of tiles, clean the surface of dirt or any contamination.

8.0 MIXING:

8.1 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.

9.0 DIMENSIONAL SURFACE CORRECTION:
Note: it is assumed the polyester or fibreglass surfaces are dimensionally correct. However minor surface corrections can be made by skimming the surfaces with the epoxy adhesive and allowing it to set prior to the tiling phase.

9.1 Skimming - Where skimming or shallow levelling coats are required in small areas, the LATAPOXY Adhesive can be used. Mix to a plastic consistency and apply to the surface with the straight edge of the trowel. Work in layers, nominally 2-3mm thick between coats. Allow to dry between coats.

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

10.0 This section not used.

11.0 INSTALLATION OF TILE BY THE THIN BED METHOD:
Note: Protect adjacent surfaces from adhesive and grout spillage, including those under water.

11.1 The LATAPOXY Adhesive shall be applied to the substrate 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 10 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. Clean adhesive from the tile surface with a wet sponge as the work progresses. Do not allow adhesive to set on the face of the tile.

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 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 & engineer’s 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.

12.4 Movement joints shall be sealed with an appropriate sealer. Movement joint voids are to be free of all debris, adhesives or anything that will impede movement. Use polyethylene backing rods and bond breaking tapes as required.

13.0 GROUTING AND POINTING JOINTS:

13.1 Joints shall be grouted or pointed with an LATAPOXY SP-100 Epoxy Grout or SPECTRALOCK Pro Premium Epoxy Grout as required.

13.2 Clean all joints of adhesive, dirt, mountings, spacers or anything that may inhibit a full joint. 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 the contractor shall take precautions to protect the work from varying adverse weather conditions.

14.2 In the case work is being carried out on pools that contain water, the contractor shall take precautions to prevent epoxy from dropping into the water.

14.3 Allow tile work or grout to cure 10 days at 21 C before filling a swimming pool or fountain. Weather Note: The curing of tile fixing adhesives and grouts, are retarded, by low temperatures and accelerated by high temperatures. Finished work should be protected for an extended period of time.

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