General Tile Fixing over Scyon™ Secura™ Exterior Flooring. 15 Year System Warranty.

This document covers the installation ceramic or stone tiles over Scyon™ Secura™ Exterior Flooring - cement backer board background with the thin bed adhesive method. 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 tile in shock resistant, waterproofing, fixing and grouting materials, as specified herein and where indicated in drawings. Install thin, load bearing waterproof membranes, as specified and 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 Areas that are to receive tile installed by the thin bed method shall be true to within 3 mm in 3m from the required plane and 1.5mm in 600mm when measured from the high spot. Falls shall be built into the decks and shall be directed away from the building, see James Hardie™ guide. Surface regularity is to be built into the cement sheet floor. Gypsum or asphalt-based 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. The cement backer board floor must be coated with LATAPOXY Moisture Shield and waterproofed with LATICRETE HYDRO BAN Liquid Applied Waterproof Membrane prior to the direct adhering of tiles.

2.5 In addition to the requirements of James Hardie™ surfaces and sub-framing must be structurally sound, stable and rigid enough to support ceramic/stone tile, thin brick and similar finishes. Substrate deflection which includes the cement backer board, under all live, dead and impact loads, including concentrated loads, must not exceed L/360 for thin bed ceramic tile/brick installations or L/480 for thin bed stone installations where L =span length.

2.6 Installations should be constructed of impervious finishes and fixing systems to help reduce the incidence of efflorescence. Weather bars and barriers should also be incorporated at tiling perimeters to prevent the ingress of water from under adjacent areas from entering into or under the tiling system.

2.7 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 and AS4654.1/2.

2.8 This is not a master specification and may not include all the information required to complete the works. Contact LATICRETE for any additional information.

2.9 Consult the relevant, current product data sheets and how to guides for more complete and installation information on products specified in this document. Follow all James Hardie™ instructions for the installation of tile over Scyon.

2.10 Follow all occupational health and safety and site safety procedures. Refer to the relevant SDS for all safe handling information on the products nominated in this specification. Follow all James Hardie™ safety procedures when handling and processing their products.

2.11 Consult LATICRETE if the tile has a backing that may affect adhesion and coverage of adhesive.

2.12 Contact LATICRETE for a custom project specification.

3.0 MATERIALS:

3.1 All stone & tiles, where called for, shall be deemed by the designer to be dimensionally stable, not moisture sensitive and suitable for the proposed installation for the purpose of this specification.

3.2 Skimming materials shall be LATICRETE 254 Platinum Tile Adhesive
Tile adhesives materials shall be: LATICRETE 254 Platinum Tile Adhesive.
Tile grout materials shall be: LATICRETE PERMACOLOR Grout or LATICRETE SPECTRALOCK PRO Premium Grout for greater chemical resistance.
Waterproofing & crack suppression materials shall be: LATICRETE HYDRO BAN Waterproof Membrane & LATAPOXY Moisture Shield.
Movement joint sealant shall be: LATICRETE LATASIL Sealant and LATASIL 9118 Primer.

All waterproofing, renders & screed mortars, tile fixing and grouting materials shall be as provided by LATICRETE Australia, 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 All, mortar, grout additives, waterproof membranes and adhesives shall be covered by a manufacture's Certificate of Compliance.

3.4 The bedding and grouting mortars shall be impact and shock resistant.

3.5 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 The supplier of installation materials shall have been regularly engaged in the manufacture of these materials for a minimum of ten (10) years, and shall submit to the architect a list of three similar installations, each having a minimum of five (5) years’ service.

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.

6.0 MORTAR, GROUT MIXES & WATERPROOF MEMBRANES:

6.1 LATEX PORTLAND CEMENT ADHESIVE & SKIM COATS
20 kg LATICRETE 254 Platinum Tile Adhesive

6.2 GROUT
Cementitious
10 kg LATICRETE PERMACOLOR. Select colour from LATICRETE grout chart.
Or
Epoxy
#1 Units of LATICRETE SPECTRALOCK PRO Premium Grout.

6.3 WATERPROOF MEMBRANE
15 litre pail LATICRETE HYDRO BAN Liquid Applied Waterproof Membrane.
20 litre unit LATAPOXY Moisture Shield.
600ml sausage HYDRO BAN Fillet & Sealant

6.4 SEALANTS
305 ml tube LATICRETE LATASIL Sealant
240ml Jar LATASIL 9118 Primer as required

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, curing compounds, paint, dirt or any other foreign material that may inhibit bond.

7.2 As required, the sheeted substrate shall be prepared/processed prior to applying waterproofing and tiling system. Follow all good trade practice including guidelines as per the James Hardie instructions.

7.3 As required the sheeted substrate shall be cleaned after surface preparation to clean surface dirt and contamination or weakened surface layers. Any approved cleaning agents must be completely removed, neutralized and rinsed. Follow James Hardie™ cleaning instructions.

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 SURFACE CORRECTION:

Note - Dimensional surface correction should be made accurate in the sub-framing and installation of the sheets to meet levelness or flatness tolerances for direct application of waterproof membrane and tiling using the thin bed and medium bed methods of application.
9.1 Skimming - Where skimming or shallow levelling coats are required in small areas, LATICRETE 254 Platinum Adhesive can be used over the LATAPoxy Moisture Shield. 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. Scratch and 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 INSTALLATION OF WATERPROOF & CRACK SUPPRESSION MEMBRANE

Note: The tile background shall be constructed to allow for waterproofing to AS4654.2. The required falls for drainage shall be built into the Scyon substrate.

10.1 Before starting, surface to be covered shall be dry and cleaned to remove soil, dust, paint, form oil, sealants, grease or anything that may inhibit bond.

10.2 Surface to be epoxy coated and waterproofed shall be plumb and true to the previously stated tolerances.

10.3 Prior to applying the HYDRO BAN membrane to the Scyon Exterior flooring, apply a liberal coat of LATAPoxy Moisture Shield. Stage works so both coats of HYDRO BAN can be installed over the dried LATAPoxy Moisture Shield within 24 hours of application. Allow the HYDRO BAN membrane to dry between coats.

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

10.5 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 254 Platinum 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 to the substrate as can be covered within 5 to 15 minutes or while adhesive surface is still wet and tacky. Prior to placing the tile, an amount of adhesive shall be applied evenly to the back of the entire tile. 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. Clean adhesive from the face of the tiles and joints whilst still fresh. Adhesive can be cleaned with a wet cloth or sponge.

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 AS3958.1 & 2 for more details.

12.3 Refer to James Hardie™ sheet control joints and movement joint information. Do not tile over butt joints.

12.4 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.

12.5 Movement joints shall be sealed with LATICRETE LATASIL Sealant. Prime as required. Use polyethylene backing rods and bond breaker tapes as required.

13.0 GROUTING AND POINTING JOINTS:

13.1 Joints shall be grouted or pointed with LATICRETE PERMACOLOR or LATICRETE SPECTRALOCK PRO Premium Grout.

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 the relevant 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, skims, 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 tile work to cure. Weather Note: The curing of; waterproof membranes, 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.

15 CLEANING & SURFACE SEALING.

15.1 The tiles and stone on this project shall be cleaned and sealed with LATICRETE STONETECH Sealers and Cleaners as appropriate for the specific tile or stone installation.
15.2 Consult the product data sheet and technical guides prior to use. For further information contact stonетech@laticrete.com.au Test prior to use in a small unobtrusive area.

15.3 Maintain STONETECH Sealer every 3 to 5 years or as determined by usage and site conditions

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