Surtec
TILING & WATERPROOFING SYSTEMS

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

TECHNOKOLLA PROJECT SPECIFICATION FOR NATURAL STONE TO A WATERPROOFED IN SITU CONCRETE	
PREPARED FOR:	**ISLAND STONE & THE NATURAL STONE CO.** **GENERIC MASTER SPECIFICATION FOR PROJECT ADAPTATION**

1.0 SPECIFICATION INTENT

This specification covers external natural stone wall cladding installed over a waterproofed in situ concrete substrate using a Technokolla waterproofing and tiling system. It includes substrate preparation, moisture source control, waterproofing, stone fixing, movement joints, sealants, surface finish requirements, quality assurance, protection and maintenance.

The intent is to support compliance with the New Zealand Building Code (NZBC) clauses B2 Durability, E2 External Moisture and E3 Internal Moisture where relevant. G13 Foul Water applies only where drainage or foul water work is included.

Install all listed products strictly to the current Technical Data Sheet (TDS), Safety Data Sheet (SDS), this specification, project drawings, concrete substrate requirements, stone company requirements, and relevant Tile Association of New Zealand (TANZ) and Internal Wet Area Membrane (IWAM) guidance where applicable. Use the complete Technokolla system. Product substitutions or mixing systems may void approvals, warranties and Producer Statement (PS3) support.

1.1. TECHNOKOLLA SYSTEM OVERVIEW

The Technokolla system is a coordinated primer, waterproofing membrane, reinforcement, adhesive, grout, sealant and surface-care system for tiling and stone installation. The system must be selected to suit the stone, concrete substrate, exposure, movement and service conditions.

FEATURES

- Complete system selection from primer through to stone care.
- Waterproofing and moisture management layer behind the stone.
- Adhesive options for external natural stone cladding: TECHNO S ONE or TECHNO STAR.
- TECHNO TC LASTIC may be specified to enhance bond and flexibility where permitted by the current TDS.
- Reinforcement and detailing for corners, returns, penetrations, concrete joints, terminations and dissimilar materials.
- Surtec technical support, applicator training, QA record support and PS3 support where applicable.

1.2. SCOPE

This specification is for external vertical natural stone cladding over waterproofed in situ concrete substrates.

Wet rooms, balconies, façades outside this build-up, pools, spas, terraces, podiums, decks, commercial wet areas, chemical exposure, immersed work, retaining walls, below-ground walls, negative-side moisture, hydrostatic pressure, active water ingress, structural cracking and heated substrates require project-specific review by the Surtec Technical Team before specifying or installing.

1.3. INFORMATION TO CONFIRM BEFORE ISSUE

Complete the following before issuing the construction specification.

- □ Area in SQM, elevation breakdown and extent of stone cladding.
- □ Interior or exterior confirmation. This specification assumes exterior vertical cladding.
- □ Wet or dry exposure, including coastal exposure, rain, UV, salts, chemicals, temperature range and %RH.
- □ Concrete type, age, strength, surface finish, curing method, moisture status, pH where required, crack condition, construction joints, control joints, form-release agents, curing compounds, coatings and contamination.
- □ Whether the concrete wall is above-grade, retaining, below-ground, or subject to moisture from the rear face.
- □ Moisture source control, including cappings, flashings, drainage, weep paths, ground clearances, pavement junctions and water discharge points.
- □ Stone type, thickness, size range, finish, absorption, moisture sensitivity, weight per SQM, and cleaning or sealing requirements from the stone company.
- □ Surface finish and visual standard required by the approved mock-up.
- □ Movement joints' responsibility, locations, spacing and sealant colours confirmed by the designer.
- □ Mechanical restraint method where required by stone weight, stone size, façade height, wind suction, substrate condition or engineering design.
- □ Heating, if any. Heated substrates require separate review.
- □ Programme requirements, curing windows, weather protection, scaffold protection, first access date and handover date.

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

2.0 GENERAL

2.1. ***MANUFACTURERS DOCUMENTS:*** Documents referring to materials specified are available from Trade Supplies Ltd (T/A Surtec).

2.2. MANUFACTURER**: SIKA ITALIA SPA**, Via Radici In Piano 558 - 41049 Sassuolo (MO) – Italy.
Phone: +39 0536 809711 export_tk_department@it.sika.com - www.sika.it

2.3. ***BRANZ APPRAISAL:*** All specified tile adhesives are documented and compatible with BRANZ Appraised waterproofing membranes. Install strictly to the appraised system for:

- TECHNOKOLLA Rasolastik Exterior Waterproofing Membranes BRANZ #541
- TECHNOKOLLA Rasolastik and Rasogum + Wet Area Membranes BRANZ #542
- STRATAFLEX Wet Area Waterproofing Sheet Membrane BRANZ #519

2.4. **TANZ SYSTEM APPRAISAL 12122**: All tile products listed in the Technokolla Waterproof Membrane and Tile Adhesive System TANZ appraisal comply with AS4858, the IWAM Code of Practice, and AS3958.

2.5. ***STANDARDS COMPLIANCE:*** Install to AS3958 for tiling and AS3740 for internal wet areas. Membrane performance to AS4858. Follow IWAM Code of Practice for internal wet areas and TANZ Best Practice (use the pools section for pools). Supports NZBC E3 Internal Moisture, E2 External Moisture, and B2 Durability.

2.6. ***TECHNICAL DRAWINGS***: Project-specific details showing water-stops, penetrations and movement-joint treatments must be submitted for acceptance. Standard drawings are available in PDF and DWF or by contacting technokolla@surtec.co.nz.

2.7. ***TECHNOKOLLA TILING & WATERPROOF SYSTEM:*** The Technokolla Tiling & Waterproofing System meets NZ requirements. Membranes are tested to AS4858 and applied per AS3740 and IWAM. Use the complete Technokolla system. No substitutions without Surtec written approval. To become a trained Technokolla Applicator, contact waterproofing@technokolla.co.nz.

2.8. ***MASTERSPEC:*** The Technokolla Tiling & Waterproofing System is available on Masterspec.

2.9. ***RESPONSIBILITIES:*** The Installer verifies concrete soundness, cure, moisture status, planeness, crack condition, contaminants and product suitability before starting. Record moisture condition and planeness prior to membrane works. Protect fresh work within TDS environmental limits. Negative-side moisture, active water ingress, retaining walls, structural concerns, unusual substrates, chemical exposure and heated substrates require escalation.

2.10. ***ENVIRONMENTAL CONDITIONS:*** Apply products within the TDS temperature and humidity limits. Protect primers, membranes, adhesives and grouts from water, dust and traffic until fully cured.

2.11. ***RISK TRIGGERS TO ESCALATE TO SURTEC TECHNICAL TEAM:*** Substrate movement or cracking; tanking or negative-side waterproofing; structural concerns or unusual substrates; pools, façades, balconies and decks; heated floors; chemical exposure.

2.12. ***MOVEMENT JOINTS: P****rovide joints at perimeters, over structural and control joints, at changes in plane or substrate and at centres as detailed by the designer. External mitres must be sealed, not grouted. Confirm spacing and responsibility with the designer.*

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

3.0 SUBSTRATE, IN SITU CONCRETE, MOISTURE AND SUPPORT REQUIREMENTS

3.1. STRUCTURE AND SUPPORT

- The in situ concrete wall structure, reinforcement, strength, movement joints, control joints, construction joints, load capacity and allowable deflection must be confirmed by the project structural engineer.
- The design must validate total dead load, wind load, seismic load, stone weight, movement, stability and local exposure conditions.
- Concrete suitability must be confirmed for the project. Do not assume all in situ concrete is suitable for bonded natural stone cladding.
- Structural cracks, active movement, hollow or weak areas, friable repairs and unsupported edges must be corrected before waterproofing or stone fixing starts.

3.2. CONCRETE SUITABILITY AND INSTALLED CLADDING WEIGHT

- Confirm the total installed cladding weight in kg/SQM before the specification is issued. Include stone, adhesive bedding, grout, sealant, sealer, backing mesh, mechanical restraint and any other permanent components.
- The in situ concrete wall must be confirmed suitable for the installed cladding weight, wind suction, seismic load, exposure and movement.
- Where stone weight, stone size, façade height, wind suction, substrate condition or engineering design requires restraint, provide engineer-designed mechanical restraint.
- Mechanical restraint must be fixed to suitable structural concrete or an engineered backing system. Do not rely on weak repair mortar, friable concrete, loose render or unsound concrete to support restraint fixings.
- TECHNO TC LASTIC may enhance bond and flexibility where specified and permitted by the current TDS, but it does not replace substrate preparation, structural support or engineered mechanical restraint.

3.3. IN SITU CONCRETE SUBSTRATE

- Concrete must be cured, stable, dry, clean and free from dust, laitance, curing compounds, form-release agents, sealers, paint, coatings, salts, efflorescence, oil, grease, mould and other contaminants.
- Concrete must be mechanically prepared where required to expose a clean, sound, open-textured surface suitable for primer and membrane adhesion.
- Concrete must be brought to the required plane before waterproofing. Use a suitable cementitious repair mortar, render, fairing coat or levelling mortar where required by the substrate condition and TDS.
- Repairs, render or fairing coats must be cured, bonded, sound, dry and suitable for the selected Technokolla primer and membrane.
- Construction joints, control joints, cracks, penetrations, junctions and changes in substrate must be identified and detailed before priming.

3.4. MOISTURE SOURCE CONTROL

- Water entry must be controlled at the rear, top, sides and base of the concrete wall before waterproofing and stone fixing starts.
- Provide effective cappings, flashings, sills, ledges, drainage paths and weep paths so water is not directed behind the stone system.
- Ground clearances, paving junctions and base terminations must prevent ponding, splash-back and trapped moisture.
- Do not rely on natural stone, grout, sealer or surface protection as the primary weatherproofing layer.
- Do not proceed where moisture is entering from the rear face, rising from below, or being driven through the wall by hydrostatic pressure.

3.5. MECHANICAL RESTRAINT

- Mechanical restraint must be provided where required by stone weight, stone size, stone thickness, façade height, wind suction, substrate condition, concrete strength or project structural design.
- Mechanical restraint must be designed by the project structural engineer and coordinated with the stone company, installer and waterproofing applicator before work starts.
- Mechanical restraint may include direct fixing to each stone unit or a proprietary support system fixed to the structure, as approved by the project engineer.
- All fixings, penetrations and restraint points must be coordinated with the waterproofing system so water cannot track into or behind the concrete wall or stone cladding system.
- TECHNO TC LASTIC enhances bond and flexibility where specified, but it does not replace the need for engineered mechanical restraint.

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

4.0 SURFACE FINISH REQUIREMENTS

Surface finish requirements apply at four stages: substrate, membrane, stone and completed work. The approved mock-up is the final appearance control sample.

4.1. CONCRETE SUBSTRATE FINISH BEFORE PRIMING OR WATERPROOFING

- Surface must be sound, rigid, dry, clean and free from dust, loose particles, laitance, mortar dags, cement slurry, oil, grease, release agents, curing compounds, sealers, paint, coatings, salt deposits, efflorescence, mould and other contaminants.
- Concrete must be sufficiently cured and stable for waterproofing and stone fixing.
- Dense, steel-trowelled, burnished, or formwork-slick surfaces must be mechanically prepared, where required, to provide a suitable key for primer and membrane adhesion.
- Honeycombing, blowholes, cracks, voids, fins, nibs, poor repairs and abrupt changes in plane must be corrected before membrane work starts.
- Render, fairing coats and repairs must be firmly bonded, cured, dry and compatible with the selected primer and membrane.
- Cracks, construction joints, control joints, transitions and penetrations must be detailed before membrane work starts.
- Planeness must be suitable for the stone format and bedding method. Unless the designer specifies a tighter requirement, target a maximum of 3 mm over 2 m and 1 mm over 300 mm where large format or tight alignment is required.
- Do not hide defects under primer or membrane.

4.2. WATERPROOFING MEMBRANE FINISH BEFORE STONE FIXING

- Membrane must be continuous, fully cured, firmly bonded, pinhole-free, free of fish eyes, blisters, cracking, missed areas, contamination, rain damage or active efflorescence.
- Reinforcement must be fully encapsulated in the membrane with required overlaps. Minimum overlap is 50 mm unless the TDS requires more.
- Wet film thickness (WFT), dry film thickness (DFT), coverage and cure times must be recorded for each coat.
- No stone fixing may start until the membrane is accepted and protected from damage.

4.3. STONE FINISH BEFORE FIXING

- Stone must be dry, sound and suitable for external wall cladding.
- Backs and edges must be free from dust, cutting slurry, loose material, wax, resin, oil, release agents and contamination.
- Reject or set aside cracked, delaminated, weak, excessively warped, salt-contaminated or stained stone until the stone company confirms acceptance.
- Blend stone from multiple pallets or crates to the accepted visual range. Natural variation is expected, but the finished work must match the approved mock-up.
- Confirm whether the stone is moisture-sensitive or acid-sensitive before selecting an adhesive, grout, cleaner, or sealer.

4.4. COMPLETED VISIBLE FINISH

- Finished work must match the accepted mock-up for stone blend, coursing, joint width, corner detail, edge expression, sealant colour, grout colour, surface treatment and general workmanship.
- Stone must be plumb, aligned and properly supported to the tolerance accepted for the stone profile.
- Adhesive, grout, sealant smears and cleaning residues must be removed before handover.
- Movement joints and external mitres must be sealed, not grouted.
- Sealant must be clean, tooled, bonded to the correct faces and supported by backer rod where required.
- Final surface treatment must not change the appearance unless a colour-enhancing finish has been approved by sample.

5.0 REQUIRED TECHNOKOLLA PRODUCTS

Final product selection must follow actual site porosity, stone type, exposure, movement demand and current TDS. Do not substitute products without Surtec's written approval.

5.1. PRIMER SELECTION BY POROSITY AND DENSITY

- Use TECHNO PRIMER T on absorbent masonry, cement render or fairing coats where required by current Technokolla guidance and the TDS.
- Use TECHNO PRIMER-101 Plus on non-absorbent or difficult surfaces, and where an adhesion promoter is required.
- Confirm actual site porosity before selecting primer. Dense coatings, old finishes or contaminated surfaces may require removal or separate preparation before priming.
- Apply primer as a continuous film and allow it to dry fully before membrane work.

5.2. WATERPROOFING AND MOISTURE MANAGEMENT

- Use TECHNO RASOLASTIK ADV KIT or TECHNO RASOLASTIK EVO as the primary Technokolla moisture-management membrane behind the stone.

  - Rasolastik ADV is a two-part flexible cementitious waterproofing membrane suitable for indoor and outdoor floors and walls, including external wall applications, when used in accordance with the TDS.
  - Rasolastik Evo is a single-component, fibre-reinforced cementitious waterproofing membrane suitable for indoor and outdoor floors and walls, including external wall applications, when used in accordance with the TDS.
- Apply in two coats to the specified WFT and final DFT.
- Reinforce corners, changes in plane, penetrations, concrete joints requiring treatment, cracks treated by accepted detail, stress points and terminations with TECHNO RL80 BANDAGE or TECHNO TAPAS MESH as detailed.
- Use TECHNO TAPAS MESH where broad reinforcement is required or where project details require mesh reinforcement in the membrane coat.
- Do not use the membrane as a substitute for unresolved tanking, negative-side waterproofing, rising damp control or hydrostatic pressure design.

5.3. ADHESIVE AND FIXING THE STONE

- Use TECHNO S ONE or TECHNO STAR as the nominated adhesive options for external natural stone cladding, subject to stone compatibility, exposure and current TDS.
- TECHNO S ONE is the primary C2TE S1 adhesive option for natural stone and external wall service, where the TDS confirms suitability. It is suitable for natural stone in large sizes and façade work, as used in accordance with the current TDS.
- TECHNO STAR is an alternative C2TE S1 adhesive option for applications where a higher bed build is required, and the stone is confirmed to be unaffected by water.
- Where specified, add TECHNO TC LASTIC to enhance bond and flexibility. TECHNO TC LASTIC is a synthetic rubber-based elasticising and tackifying latex for cement-based mortars and adhesive promotion.
- When mixed at the approved TDS ratio, TECHNO TC LASTIC can improve flexibility and may allow a C2TE S1 adhesive to meet C2TE S2 performance, as confirmed by current TDS and Surtec guidance.
- Do not use TECHNO TC LASTIC as an unapproved site additive. Do not change ratios, water content, mixing order or open time outside TDS requirements.
- Final trowel size, bed depth, and additive requirement must be confirmed through stone profile, substrate plane, and lift-and-inspect coverage checks.

5.4. GROUT AND SEALANT

- Where grouted joints are detailed, use TECHNO SKYCOLORS EVOLUTION unless a different Technokolla grout is approved for the stone and exposure, such as TECHNO COLORS CEMENTITIOUS GROUT.
- For movement joints, perimeter joints, external mitres, dissimilar-material junctions and sensitive stone interfaces, use TECHNO NEUTRAL CURE SILICONE, MAXISIL-N or an approved neutral-cure, non-staining silicone suitable for natural stone and exterior exposure.
- Do not grout movement joints. Use a backing rod and correct sealant geometry.

5.5. STONE PRE-TREATMENT, PROTECTION AND MAINTENANCE

- Use FILA PW10 as the preferred pre-treatment for the backs and edges of absorbent natural stone, where required by stone porosity, exposure, and moisture-risk assessment.
- Use FILA HYDROREP as the preferred breathable water-repellent treatment for external vertical stone surfaces, provided it is approved by the test area and the stone company's requirements.
- Use FILA CLEANER PRO for routine pH-neutral maintenance cleaning, subject to the stone company's guidance.
- Do not use acidic cleaners on acid-sensitive stone such as limestone, marble, travertine or other calcite-based stone.

6.0 INSTALLATION METHODOLOGY

All work must be completed by competent installers familiar with the specified systems. Do not install in rain, during high wind, where rain is expected before cure, on damp surfaces, or outside the current TDS environmental limits.

6.1. PRE-START REVIEW

- Confirm final drawings, elevations, stone schedule, concrete substrate condition, repair or fairing coat requirement, waterproofing details, cappings, flashings, drainage, mechanical restraint, movement joints, product selections and protection plan.
- Confirm area in SQM, stone weight, concrete age, moisture condition, crack status, exposure, programme, scaffold access, weather forecast and curing windows.
- Confirm whether the concrete is above-grade, retaining, below-ground, or subject to moisture from the rear face.
- Confirm that all installers have the current TDS, SDS, accepted mock-up requirements and QA sheets.

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

6.2. SUBSTRATE ACCEPTANCE

- Inspect concrete soundness, cure, moisture status, pH where required, cracks, construction joints, control joints, efflorescence, salts, coatings, contamination, laitance, form-release agents, curing compounds, plane, repair condition, penetrations and termination details.
- Check that moisture source control, cappings, drainage and base details are complete and suitable.
- Record defects and have them corrected before priming.
- Do not proceed over damp concrete, active leaks, active efflorescence, friable surfaces, weak repairs or unresolved structural cracks.

6.3. SURFACE PREPARATION

- Mechanically remove laitance, cement slurry, form-release agents, curing compounds, loose material, dust, salts, coatings, paint and contaminants as required.
- Vacuum clean the prepared surface.
- Do not wash or wet the wall unless the substrate and TDS allow it, and the surface is fully dry before priming.
- Protect joinery, metalwork, finished surfaces and drainage paths.

6.4. PRIMING

- Prime by substrate porosity using the nominated Technokolla primer.
- Apply as a continuous film with no puddles, misses or contamination.
- Allow primer to dry fully before membrane application.

6.5. WATERPROOFING AND REINFORCEMENT

- Pre-detail all corners, changes in plane, cracks treated by accepted detail, penetrations, terminations, abutments, construction joints, control joints and stress points.
- Apply the first coat of TECHNO RASOLASTIK ADV KIT or TECHNO RASOLASTIK EVO and embed the required reinforcement wet into the membrane.
- Maintain a minimum 50 mm reinforcement laps unless the TDS requires more.
- Allow the first coat to cure, then apply the second coat to the required WFT and final DFT.
- Record batch numbers, area, coverage, WFT, DFT, temperature, %RH and cure time.
- Protect the membrane until fully cured and accepted.

6.6. MECHANICAL RESTRAINT

- Install only the engineer-approved restraint system.
- Reinstall the restraint to a suitable structural concrete or an engineered support system.
- Do not rely on weak repair mortar, friable concrete, loose render or unsound concrete to support restraint fixings.
- Coordinate fixings with waterproofing so the waterproofing layer remains continuous or is sealed by an accepted detail.
- Record restraint type, fixing locations and acceptance before full stone installation.

6.7. STONE PREPARATION

- Blend stone from multiple pallets or crates to match the accepted control sample.
- Check every unit for cracks, delamination, weak edges, staining and contamination.
- Dry clean backs and edges. Remove cutting slurry and dust.
- Apply FILA PW10 or another approved back or edge treatment only where specified, and test and dry before fixing.

6.8. ADHESIVE MIXING AND FIXING

- Mix TECHNO S ONE or TECHNO STAR strictly to the TDS. Use potable water and clean pails.
- Where specified, mix TECHNO TC LASTIC strictly to the current TDS ratio and method. Do not add extra water or site additives unless the TDS permits.
- Allow slake time and complete the second mix where required by the TDS.
- Apply a contact layer to the waterproofed substrate and back-butter stone as required.
- Use the trowel size required to achieve full support and full contact. Do not spot fix.
- Lift and inspect stones regularly to confirm contact, bed thickness and coverage.
- Maintain joint width, level, plumb, coursing and alignment to the accepted mock-up.
- Do not build too high, too quickly.
- Use temporary support where required.

.

6.9. JOINTS, GROUT AND SEALANT

- Keep movement joints, perimeter joints, concrete construction joints, control joints and dissimilar-material joints free of adhesive and grout.
- Continue substrate joints through the stone finish unless the designer and engineer provide an accepted alternative.

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

- Grout only where specified and only after adhesive cure.
- Use a backing rod and sealant geometry suited to the joint width and movement.
- External mitres must be sealed, not grouted.

6.10. FINAL CLEANING AND PROTECTION

- Clean as work proceeds. Do not allow adhesive, grout or sealant residue to harden on the face.
- Use cleaning methods accepted for the stone. Do not use acidic cleaners on acid-sensitive stone.
- Apply final breathable protection only after the stone, adhesive, grout, and sealants have cured, and the test area has been accepted.
- Protect completed work from rain, impact, staining, scaffold damage and other trades until handover.

7.0 MOVEMENT JOINTS AND SET-OUT DETAILS

- Movement joints are design items and must be shown on the project drawings. They must not be left as a generic site decision.
- Provide joints at perimeters, returns, changes in plane, changes in substrate, concrete construction joints, concrete control joints, structural joints, internal corners, abutments to joinery and dissimilar materials.
- Identify existing cracks before work starts. The designer or engineer must assess active cracks before waterproofing or stone fixing.
- Continue concrete construction joints and control joints through the cladding finish unless the designer and engineer provide an accepted alternative.
- Use UV-appropriate sealants for exposed junctions.
- Do not bridge movement joints with adhesive, grout or rigid stone unless the detail is designed for that movement.
- Top terminations, cappings, sill zones, base edges and pavement junctions must shed water and allow drainage. Do not trap water behind the stone.

8.0 MOCK-UP AND CONTROL SAMPLE

- Before production work starts, complete a representative mock-up and obtain written acceptance.
- Include one typical field area, one external corner, one return, one abutment, one top termination, one base termination and one movement joint.
- Show stone blend, coursing, joint width, corner expression, sealant colour, grout colour, surface treatment and final appearance.
- Use the same concrete preparation, primer, membrane, reinforcement, adhesive, TECHNO TC LASTIC additive if specified, stone preparation, grout, sealant and sealer proposed for the work.
- Retain the accepted mock-up as the workmanship and appearance control sample until completion.

9.0 QUALITY ASSURANCE AND HOLD POINTS

Hold points must be recorded with photographs, dates, batch numbers and sign-off by the responsible party.

- Pre-start review completed and all project information confirmed.
- Concrete substrate condition, moisture source control, cappings, drainage and movement-joint layout are accepted before preparation.
- Crack treatment, repair mortar, render or fairing coat, surface preparation and planeness accepted before priming.
- Post-preparation surface is accepted before primer.
- Primer type, batch, area and drying are accepted before the membrane.
- Reinforcement layout accepted before the second membrane coat.
- WFT and DFT records completed for membrane coats.
- Membrane cured and accepted before stone fixing.
- Mechanical restraint is accepted before full stone production, where required.
- First mock-up accepted.
- First corner, return, opening, base and top termination accepted.
- Adhesive mixing, TECHNO TC LASTIC use if specified, bedding and coverage checks accepted.
- Pre-grout and pre-sealant review completed.
- Final cleaning and protection treatment test area accepted.
- Completion record and maintenance pack issued.

QA RECORDS TO KEEP

- □ Moisture or condition logs were required.
- □ Ambient and substrate temperature and %RH readings.
- □ Concrete age, crack status, surface preparation and repair or fairing coat acceptance.
- □ Concrete moisture and pH results were required.
- □ Primer type, batch number, area and drying time.
- □ Membrane batch numbers, coverage, WFT, DFT and photographs.
- □ Reinforcement details and junction photos.

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

- □ Adhesive batch numbers, mix records, TECHNO TC LASTIC ratio if used and coverage checks.
- □ Stone lot or pallet information, stone condition checks and rejected pieces.
- □ Sealant type, colour, joint size and cure record.
- □ Cleaning and sealer test area approval.
- □ Handover maintenance instructions and photographs.

10.0 QUANTITY PLANNING

Final quantities must be measured from project drawings and rounded to full packs. Allow extra for porous concrete, rough concrete, render or fairing coats, absorbent surfaces, junctions, cut waste, weather exposure and installer method.

- Primer quantity equals area in SQM divided by TDS coverage, adjusted for substrate porosity.
- Membrane kits equal the area in SQM divided by planning coverage, rounded up, plus wastage.
- Reinforcement length equals corners, changes in plane, penetrations, cracks treated by accepted detail and transitions, plus overlaps.
- Adhesive bags equal the area in SQM divided by the selected trowel coverage, rounded up. Rough stone and full back-buttering can increase demand.
- TECHNO TC LASTIC quantity equals the selected adhesive quantity and current TDS mix ratio, rounded up to full packs.
- Sealant cartridges equal the total linear metres divided by the cartridge yield for the actual joint size.

11.0 MAINTENANCE AND HANDOVER

- Provide the owner with the stone company care instructions, Technokolla QA records and FILA care recommendations.
- Inspect stone, grout and sealant joints periodically and repair damage promptly.
- Use pH-neutral cleaning for routine maintenance.
- Avoid acids on acid-sensitive stone such as limestone, marble, travertine and other calcite-based materials.
- Do not waterblast, acid wash or use aggressive cleaners unless the stone company and Surtec Technical Team confirm the method.
- Reapply breathable protection treatment as required by exposure, stone porosity and maintenance inspections.

12.0 COMPLIANCE, WARRANTY, SUPPORT AND TRAINING

- Install strictly to the current Technokolla, concrete substrate, stone company and FILA TDS, and follow the installation instructions.
- Reference NZBC B2 Durability, E2 External Moisture and E3 Internal Moisture where relevant.
- Use the TANZ Best Practice Guide and the IWAM Code of Practice, where applicable, for tiling and waterproofing work.
- Use the complete Technokolla system, including QA records, for eligibility toward system warranty and PS3 support, where applicable.
- Substituting products or mixing systems may void approvals and warranties.
- For training and technical support, contact Surtec or email waterproofing@technokolla.co.nz.

13.0 LIMITS AND EXCLUSIONS

- This specification is not a structural design.
- This specification does not specify the in-situ concrete wall, wall reinforcement, wall drainage, cappings, flashings, structural restraint, fire stopping, or movement-joint spacing.
- This specification does not confirm that the in situ concrete wall is suitable for the project load. The designer and engineer must confirm that.
- This specification does not resolve structural cracking, active leaks, rising damp, negative-side moisture, hydrostatic pressure, retaining-wall tanking, below-ground waterproofing, drainage design or structural restraint design.
- This specification does not cover permanent immersion, pools, spas, water features, chemical exposure or heated substrates.
- This specification does not replace current TDS requirements. Current product instructions prevail.

14.0 DISCLAIMER

This specification is provided in good faith based on the information available and standard good practice for external natural stone cladding over waterproofed in situ concrete substrates. Site conditions vary, and testing prevails.

The designer is responsible for structure, falls, drainage, cavity, weatherproofing details, movement joints and compliance of the complete wall assembly. The installer is responsible for workmanship, substrate acceptance, product handling, installation records and protection of the work.

Use only the complete Technokolla waterproofing and tiling system as specified. Mixing systems or substituting components may void approvals and warranties.

TECHNOKOLLA SYSTEM

Full list of products verified as part of the Technokolla Tiling & Waterproofing System

TECHNOKOLLA
A SIKA COMPANY

FILA

BRANZ Appraised

EBOSS

masterspec partner

Surtec
TILING & WATERPROOFING SYSTEMS

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

TECHNOKOLLA FLOOR TILING & WATERPROOFING SYSTEMS

All products supplied by, and distributed by Surtec within the Technokolla, NAC, Techno, & Fila Solutions ranges have been tested for compatibility and proven to perform as a complete system when installed in accordance with the product guides and the relevant TDS; Mixing products with non-approved products may void approvals or warranties.

PRIMERS & MOISTURE VAPOUR BARRIER

Primers regulate suction and promote adhesion, while moisture vapour barriers control residual slab moisture in dry interiors (not a substitute for waterproofing or for negative pressure).

TECHNO PRIMER T

A ready-to-use synthetic resin-based blue primer for indoor and outdoor floors and walls. Prepares porous substrates, plasterboard, and screeds for adhesives, skimming plaster, or self-levelling mortars. Ensures better bonding and uniform application.
— Pack: 5 kg.
— Coverage: ≈20 SQM per 5 kg per coat (porous).
— Suitability: Internal/External.

TECHNO PRIMER T PLUS

A synthetic resin-based blue primer for indoor and outdoor floors and walls. Prepares porous substrates, plasterboard, and screeds for adhesives, skimming plaster, or self-levelling mortars. Ensures better bonding and uniform application.
— Pack: 5 kg makes ≈100 L (dilute 1:4).
— Coverage: ≈100 SQM per made-up batch (indicative).
— Suitability: Internal/External.

TECHNO PRIMER 101

An adhesion promoter for cement-based adhesives on non-absorbent substrates, such as ceramic tiles (glazed bricks, polished stoneware, etc.), stone materials, PVC, and linoleum. For absorbent or fairly absorbent surfaces, such as concrete, cement-based screeds, gypsum, plasterboard, anhydrite, wood, and chipboard, dilute 1:1 with water before applying adhesives, skimming plaster, or cement-based self-levelling mortar.
— Pack: 2 or 5 kg.
— Coverage: ≈33 SQM per 5 kg.
— Suitability: Internal/External.

TECHNO MVB

A two-component epoxy primer formulated to control moisture vapour emission rates (MVER) from concrete substrates. Designed for use beneath flooring systems or other flooring finishes; ideal for managing moisture issues in new or existing slabs. Works on a wide range of substrates and overlays, for residential, commercial, and industrial floors.
— Pack: 15kg kit (10kg A / 5kg B).
— Coverage: 90-225 SQM per 15kg Kit, depending on substrate porosity.
— Suitability: Internal dry zones only.

SCREEDS & LEVELLING

Rapid-setting screeds and self-levellers form falls and correct planeness so substrates meet tile tolerance and programme needs.

TECHNO CRACK REPAIR

A two-component, 100% solids, semi-rigid, self-levelling epoxy designed for filling cracks and control joints in concrete substrates. Formulated for horizontal applications, it helps protect joint edges and reduce spalling in trafficable floors. Standard colour is grey.
— Pack: 4kg kit (2kg A / 2kg B).
— Coverage: 30 linear metres (10mm deep/15mm wide) per 4kg Kit, depending on substrate porosity.
— Suitability: Internal/External; Immersed (per TDS).

TECHNO MONOKRONOS (CT C25 F5)

A premixed, quick-drying screed for forming planes/falls; controlled shrinkage for under tiles, parquet, vinyl, resilient materials, or natural stone; works on heated screeds; meets EN 3892-2 and EN13813 requirements.
— Build: up to 60 mm layer at a time per TDS
— Compressive Strength: ≥ 13 MPa ≈ 7 days ; ≥ 25 MPa ≈ 28 days
— Pack: 25 kg.
— Coverage: ≈13.89 SQM per 1 mm per 25 kg.
— Suitability: Internal/External; Immersed (per TDS).

TECHNO KRONOS (CT C30 F7)

A quick-drying binder for site-sand screeds, offering controlled shrinkage for under tiles, parquet, vinyl, resilient materials, or natural stone. It works on heated screeds and meets EN 3892-2 and EN13813 requirements.
— Build: up to 100 mm layer at a time per TDS
— Compressive Strength: ≥ 7.5 MPa ≈ 24 hours; ≥ 25 MPa ≈ 28 days
— Pack: 25 kg (used with sand 1:4).
— Coverage: ≈48.00 SQM per 1 mm per set (25 kg + 4 x sand).
— Suitability: Internal/External; Immersed (per TDS).

TECHNO GAP (CT C12 F3)

A thixotropic, fibre-reinforced plaster/leveller for plane correction; to prepare concrete or cement-based screeds for tiling or natural stone; strong bonding and durable finish once cured. Meets EN 3892-2 and EN 13813 requirements.
— Build: up to 20 mm layer at a time per TDS
— Compressive Strength: ≥ 15 MPa ≈ 28 days
— Pack: 25 kg.
— Coverage: ≈14.71 SQM per 1 mm per 25 kg.
— Suitability: Internal/External; Immersed (per TDS).

TECHNO PLAN-10 N (CT C30 F7)

An ultra-quick setting, self-levelling mortar that smooths irregular surfaces and works on heated screeds, making it suitable under ceramic, textile, flexible, or wooden floor coverings. Meets EN 3892-2 and EN 13813 requirements.
— Build: up to 10 mm layer at a time per TDS
— Compressive Strength: ≥ 30 MPa ≈ 28 days
— Pack: 25 kg.
— Coverage: ≈16.67 SQM per 1 mm per 25 kg.
— Suitability: Internal Only.

Surtec
TILING & WATERPROOFING SYSTEMS

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

TECHNO PLAN 40-EXT (CT C25 C6)

A very low-emission cement-based self-levelling compound that fills, smooths, and levels substrates suitable under ceramic, textile, flexible, or wooden floor coverings; it meets EN 3892-2 and EN13813 requirements.
— Build: up to 40 mm layer at a time per TDS
— Compressive Strength: ≥ 25 MPa ≈ 28 days
— Pack: 25 kg.
— Coverage: ≈13.89 SQM per 1 mm per 25 kg.
— Suitability: Internal/External.

TECHNO FIBRO LEVEL (CT C25 F7)

A fibre-reinforced cement-based self-levelling compound for plane correction, pumpable or hand-trowelled, tile after about 24–48 hours, depending on thickness and conditions; meets EN 3892-2 and EN13813 requirements.
— Build: up to 30 mm layer at a time per TDS
— Compressive Strength: ≥ 20 MPa ≈ 24 hours; ≥ 35 MPa ≈ 28 days
— Pack: 25 kg.
— Coverage: ≈13.89 SQM per 1 mm per 25 kg.
— Suitability: Internal/External.

ADDITIVES

Latex and performance additives increase flexibility, bond strength and durability of adhesives/screeds when dosed per TDS.

TECHNO TC LAX

A high-performance latex additive designed to boost the bonding strength, flexibility, and mechanical resistance of cement-based adhesives, mortars, and screeds.
— Pack: 5 kg, 25 kg.
— Coverage: per mix designed use (see TDS).
— Suitability: Internal/External.

TECHNO TC LASTIC

A latex additive for cement-based adhesives and mortars, used to enhance flexibility, adhesion and water resistance, recommended for façades, heated floors, pools and other high-stress applications.
— Pack: 5 kg, 25 kg.
— Coverage: per mix designed use (see TDS).
— Suitability: Internal/External.

LIQUID WATERPROOF MEMBRANES (BRANZ APPRAISED)

Brush/roll-applied membranes with BRANZ Appraisals for wet areas, exteriors and (where detailed) immersion, installed to verified WFT/DFT with reinforcement at junctions.

TECHNO RASOGUM+ (Class III liquid; internal wet areas)

A ready-to-use, fast-drying liquid membrane for internal wet areas. Flexible, crack-resistant, and tile-ready. With 400% elongation over both floor and wall substrates, screeds, floor levelling compounds, and under-tile heating provide a fully sealed surface for bathrooms, showers, and wet areas.
— BRANZ Appraisal 542.
— Pack: 25 kg pail.
— Coverage: ≈8.93 SQM per 25 kg at 1.0 mm DFT with 2 coats.
— Suitability: Internal Only.

TECHNO RASOLASTIK ADV (two-part cementitious, Class II).

A two-part flexible, cementitious waterproofing for indoor and outdoor floors and walls. Mixes into a smooth, tile-ready membrane with crack bridging ability of ~1.35mm and complies with AS4858 for membrane performance. Ideal for wet areas, balconies, swimming pools, fully immersed areas, external façades or restoring old waterproofing without removal.
— BRANZ Appraisals 542 Internal; BRANZ Appraisal 541 External.
— Pack: 21 kg powder + 7.45 L liquid kit.
— Coverage: ≈8.89 SQM per kit at 1.0 mm DFT with 2 coats.
— Suitability: Internal, External; Immersed (per TDS).

TECHNO RASOLASTIK EVO (single-component cementitious; potable-water capable)

A fibre-reinforced cement-based mortar for waterproofing and protecting concrete. Waterproofing and protecting underground outdoor walls and waterworks, including swimming pools, basins, tanks, concrete pipes, reservoirs, canals, and drinking water systems. RASOLASTIK EVO protects against hydrostatic pressure and concrete surfaces in accordance with standard EN 1504-9: 1
— BRANZ Appraisals 542 Internal; 541 External.
— Pack: 20 kg.
— Coverage: ≈8.33 SQM per 20 kg at 1.0 mm DFT with 2 coats.
— Suitability: Internal, External, Immersed (per TDS).

REINFORCEMENT BANDS & MESH

Banages and Tapas mesh reinforce corners, changes of plane and outlets to bridge movement and maintain membrane continuity.

TECHNO RL80 BANDAGE

A two-part bandage featuring a 100% non-woven polypropylene fibre fabric over a butyl rubber self-adhesive tape, designed for waterproofing systems. Watertight treatment for flanges, corners between walls and floors, wall-to-wall corners and for sealing penetrations. Compatible with RASOGUM+ and RASOLASTIK range.
— Dimensions: 80mm x 15M Roll.
— Suitability: Internal, External; Not for immersed areas.

TECHNO TAPAS MESH

40 GSM non-woven polypropylene fibre mesh for waterproofing and anti-fracture reinforcement. Ideal for bathrooms, showers, floors, pools, and outdoor areas. Compatible with RASOGUM+ and the RASOLASTIK range.
— Pack: (100 mm, 160 mm, 300 mm) x 150 m Roll.
— Coverage: allow overlaps.
— Suitability: Internal, External, Immersed (with compatible membrane).

TECHNO RL300 BANDAGE

A two-part bandage featuring a 100% non-woven polypropylene fibre fabric over a butyl rubber self-adhesive tape, designed for waterproofing systems. Watertight treatment for flanges, corners between walls and floors, wall-to-wall corners and for sealing penetrations. Compatible with RASOGUM+ and the RASOLASTIK range.
300 mm wide butyl/fabric band for broader transitions.
— Pack: 300mm x 10 m Roll.
— Coverage: by length.
— Suitability: Internal, External; Not for immersed areas.

Surtec
TILING & WATERPROOFING SYSTEMS

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

TECHNO PUDDLE FLANGE GASKET

A two-part bandage featuring a 100% non-woven polypropylene fibre fabric over a butyl rubber self-adhesive tape, designed for waterproofing systems. Watertight treatment for flanges, corners between walls and floors, wall-to-wall corners and for sealing penetrations. Compatible with RASOGUM+ and the RASOLASTIK range.
— Pack: 300 x 300 mm sheets.
— Coverage: 1 x 300 x 300 mm.
— Suitability: Internal, External; Not for immersed areas.

TECHNO FIBREGLASS MESH

This alkali-resistant fibreglass mesh has a fibreglass woven roving as its foundational structure. A specialised layer of alkali-resistant macromolecule latex is applied for strength, followed by meticulous surface treatment to amplify its properties. 160 GSM, 4mm x 4mm.
— Pack: 1M x 50M Roll.
— Coverage: 50 SQM.
— Suitability: Internal, External, Immersed (with compatible membrane).

NAC SHEET MEMBRANES & ACCESSORIES

Self-adhered sheets with compatible primers and seam tapes deliver waterproofing, crack isolation and sound control with clean, fast installation.

NAC STRATAFLEX

A high-strength, 1.0mm thick, self-adhering, elastomeric sheet-applied membrane for waterproofing protection under interior and exterior surfaces. Featuring a 50mm double-stick lap joint that creates a watertight seal. Permanently adheres to the substrate with NAC primer, making it the perfect solution for apartments and bathrooms. Kitchens, restaurants, malls, office buildings, and various commercial or residential properties. Allows same-day installation and is Clean Air GOLD certified.
— BRANZ Appraisal 519.
— Pack: 0.91 m x 15.24 m.
— Coverage: ≈13.87 SQM per roll after laps.
— Suitability: Internal; External (per TDS); not Immersed.

NAC ECB 75

A high-strength 1.0 mm thick, self-adhesive elastomeric membrane for interior & exterior once covered. Provides crack isolation up to ¼", works with floor heating. Allows same-day installation and is Clean Air GOLD certified.
— Packs: 0.91 m x 22.86 m.
— Coverage: ≈20.8 SQM per roll after laps.
— Suitability: Internal/External; not Immersed.

NAC SUPER SAM 125

A 3.18 mm self-adhesive, sound-deadening membrane for floors, reducing impact and airborne noise. Self-adhering, peel-and-stick, crack-protective, and suitable for residential or commercial use. Allows same-day installation and is Clean Air GOLD certified.
— Pack: 0.91 m x 15.24 m.
— Coverage: ≈13.87 SQM/roll.
— Suitability: Internal.

NAC SEAM TAPE

A 152 mm (6-inch) Seam Tape is a double-sided elastomeric tape for sealing seams, joints, and floor-to-wall transitions. Used with NAC Primer, it provides a watertight seal, suits interior and exterior applications, and enables same-day flooring installation.
— Pack: 152 mm x 15.24 m.
— Coverage: ≈2.29 SQM per roll (by area).
— Suitability: With NAC membranes.

NAC TAC PRIMER

A ready-to-use, non-flammable neoprene primer for interior and exterior use. Provides MVT protection, requires no thinning, sets in 15–30 minutes, and ensures reliable adhesion for NAC membranes.
— Pack: 4.5 L.
— Coverage: ≈37.5 SQM/4.5 L (substrate dependent).
— Suitability: Internal/External.

ADHESIVES (CLASSIFICATION • BUILD • COLOURS • COVERAGE • SUITABILITY)

Classified cementitious, reactive and epoxy adhesives in grey/white with stated build and coverage, matched to tile type, format, substrate and service conditions.

TECHNO S-ONE (C2TE S1)

A highly deformable monocomponent powder adhesive to fix porcelain/ceramic tiles and natural stone in large sizes. Fixing on façades, heating screeds, swimming pools and industrial floors; meets ISO13007 and EN12004 requirements.
— Build: up to 10 mm where specified in TDS
— Colours: Grey, White.
— Pack: 25 kg.
— Coverage: ≈8.33 SQM/bag @ 6 mm notch; ≈5.0 SQM/bag @ 10 mm notch.
— Suitability: Internal, External; Immersed (per TDS).

TECHNO STAR (C2TE S1)

— Build: up to 15 mm where specified in TDS.
— Colours: Grey/White.
— Pack: 25 kg.
— Coverage: ≈8.33 SQM/bag @ 6 mm notch; ≈5.0 SQM/bag @ 10 mm notch.
— Suitability: Internal, External; Immersed (per TDS).

TECHNO RAP (C2FT)

A rapid-set powder adhesive for time-critical installs, suitable for ceramic, porcelain, natural stone, and marble in medium and large sizes, meeting ISO 13007 and EN 12004 requirements.
— Build: up to 10 mm where specified in TDS
— Colour: Grey.
— Pack: 25 kg.
— Coverage: ≈8.33 SQM/bag @ 6 mm notch; ≈5.0 SQM/bag @ 10 mm notch.
— Suitability: Internal, External; Immersed (per TDS).

TECHNO FAST (C2FT)

A rapid-set powder adhesive for time-critical installs, suitable for ceramic, porcelain, natural stone, and marble in medium and large sizes, meeting ISO 13007 and EN 12004 requirements.

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

— Build: up to 10 mm where specified in TDS
— Colour: White.
— Pack: 25 kg.
— Coverage: ≈8.33 SQM/bag @ 6 mm notch; ≈5.0 SQM/bag @ 10 mm notch.
— Suitability: Internal/External; Immersed (per TDS).

TECHNO STONE MAXI (C2FT S1)

An ultra-white, high-thickness adhesive that hydrates fast and stays flexible; designed for fixing natural stone, marble, ceramic tiles and glass mosaics; meets ISO13007 and EN12004 requirements.
— Build: up to 15 mm (stone-grade) where specified in TDS
— Colour: White.
— Pack: 25 kg.
— Coverage: ≈8.33 SQM/bag @ 6 mm notch; ≈5.0 SQM/bag @ 10 mm notch.
— Suitability: Internal/External; Immersed (per TDS).

TECHNO AIR-ONE MC HD (C2TE S1)

A lightweight, high-grab, quick-setting, multi-consistency cement-based adhesive for fixing porcelain stoneware and natural stone in medium and large sizes; meets ISO13007 and EN12004 requirements.
— Build: up to 25 mm where specified in TDS
— Colours: White.
— Pack: 20 kg.
— Coverage: ≈9.52 SQM/bag @ 6 mm notch; ≈5.7 SQM/bag @ 10 mm notch.
— Suitability: Internal/External; Immersed (per TDS).

TECHNO FLEX-2 (C2TE S2)

A flexible cement adhesive for deformable substrates; monocomponent powder adhesive, particularly suitable for fixing all kinds of porcelain tiles with no size limits and natural stone in large sizes. Fixing on façades, heating screeds, swimming pools and industrial floors; meets ISO13007 and EN12004 requirements.
— Build: up to 10 mm where specified in TDS
— Colour: White.
— Pack: 20 kg.
— Coverage: ≈13.33 SQM/bag @ 6 mm notch; ≈8.0 SQM/bag @ 10 mm notch.
— Suitability: Internal/External; Immersed (per TDS).

TECHNO ALL 9000 (R2T)

A two-component polyurethane adhesive for natural stone, marble, and ceramic tiles; extremely flexible with no creep, suitable for damp-affected stone, difficult substrates, heating screeds, and various indoor applications; meets ISO13007 and EN12004 requirements.
— Build: up to 4 mm per coat as specified in TDS
— Colour: Grey.
— Pack: 5 or 10 kg.
— Coverage: ≈3.33 SQM/10 kg @ 6 mm notch; ≈2.0 SQM/10 kg @ 10mm notch.
— Suitability: Internal walls/special details (per TDS).

TECHNO EPOSTUK (R2T)

A two-part epoxy for mosaics, glass, and immersed zones, featuring high chemical resistance and workability; meets ISO 13007 and EN 12004 requirements.
— Build: up to 6 mm per TDS
— Colour: White.
— Pack: 10 kg.
— Coverage: trowel-dependent; plan 2–4 kg per SQM.
— Suitability: Internal/External/Immersed.

GROUTS

Cementitious and epoxy grouts in multiple colours cover specified joint widths and performance classes, including hygiene and immersion.

TECHNO COLOURS (CG2 WA)

Cement-based grouting for 1 to 8 mm joints, with fine finish and bright colours. The micro-shield system provides active protection that helps prevent the growth of bacteria, fungi, and mould, which can cause stains and deterioration of the grout; it meets ISO13007 and EN12004 requirements. Available in 30 colours.
— Pack: 5 kg.
— Coverage: planning factor ≈0.09 kg per SQM for 600 x 600 x 10 mm at 2 mm joint.
— Suitability: Internal/External.

TECHNO SKYCOLORS EVOLUTION (RG)

A two-component epoxy grout & adhesive with delicate finishes, ideal for areas that require perfect hygiene and all wet areas. It is suitable for joints 1 to 15 mm wide and meets ISO13007 and EN12004 requirements. Available in 19 colours.
— Pack: 3 kg.
— Coverage: planning factor ≈0.11 kg per SQM for 600 x 600 x 10 mm at 2 mm joint.
— Suitability: Internal/External/Immersed.

SILICONES & SEALANTS

Acid-cure and neutral-cure sealants handle perimeters and movement joints, including sensitive stones and UV-exposed areas.

TECHNO ACESIL

A flexible silicone sealant, mould-resistant with acid cure technology, highly elastic, and excellent bond strength, suitable for movement joints and areas of expected movement, meeting EN 15651 requirements. Available in 31 colours.
— Pack: 310 ml.
— Coverage: ≈12.4 LM at 5 x 5 mm.
— Suitability: Internal/External (protected).

TECHNO NEUTRAL CURE SILICONE

A fast-curing, easy-to-use sealant with strong fungicides, resistant to temperature, weathering, ageing and UV; for sensitive stones and metals.
— Pack: 310 ml.
— Coverage: ≈12 LM at 5 x 5 mm.
— Suitability: Internal/External; Immersed (per TDS).

MAXISIL-N

A fast-curing, non-staining neutral cure silicone designed for expansion joints in natural stone such as marble and granite;

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

resistant to temperature, weathering, ageing and UV. Available in 20 colours.
— Pack: 310 ml.
— Coverage: ≈12 LM at 5 x 5 mm.
— Suitability: Internal/External; Immersed (per TDS).

STAERK N60

A high quality one component, neutral room temperature neutral curing sealant; has an anti-fungus agent and it's perfect for high humidity areas, and effectively seals most building materials: glass, coated aluminium, wood, glazed ceramic tiles, fibreglass, vitreous enamel and most laminated surfaces; ideal for ceramic tile grouting and sealing around bathtubs, shower stalls, wall fixtures, rimless sinks, and kitchen and bathroom fixtures. Available in 20 colours.
— Pack: 310 ml.
— Coverage: ≈12 LM at 5 x 5 mm.
— Suitability: Internal/External; Immersed (per TDS).

TRIMS & EXPANSION

Edging trims and pre-formed movement profiles protect tile edges, finish transitions and manage movement internally and externally.

TECHNO TRIM

Anodised aluminium or stainless tile edging/finishing trims, including round edge, transition, divider, square box, listello, and bendable trim profiles. On-site powder-coating available.
— Size Profile: 4.5mm to 22.5mm.
— Colour Profile: Silver, Black, White, Brass, Gold, Gunmetal, and Champagne.
— Finishes: Matt, Gloss, Polished, Brushed or Mill.
— Length: 2.5m.
— Suitability: Internal/External.

TECHNO EXPANSION JOINTS

Pre-formed movement joints accommodate tile movement from temperature, moisture and settlement, making them ideal for large areas, transitions, changes in plane, and perimeters or bays, and are filled with UV-stable elastomers for durability.
— Size Profile: 11mm;12mm
— Colour Profile: Black/Grey
— Suitability: Internal/External.

TECHNO TOOLS & ACCESSORIES

Specialist installation tools and finishing accessories designed to support correct application, accurate measurement, safe handling, and compliant detailing across the full Technokolla tiling and waterproofing system.

— TECHNO TILE GRATE STYLE (floor waste) — finish matches Techno Trims; available in 80mm or 100mm.
— TECHNO TILE INSERT (floor waste) — finish matches Techno Trims; available in 100mm.
— TECHNO CHANNEL DRAIN — tile insert or grate options; available in aluminium or stainless-steel finish.
— WET FILM GAUGES.
— MEMBRANE BAND ROLLERS.
— PPE, AND MORE TRADE TOOLS AND ACCESSORIES

WATERSTOPS

Profiles integrate with bandage and membrane to create compliant, testable wet-room thresholds.

WATERSTOPS

Part of a waterproofing system (not a system in itself) that prevents water/moisture under the finished surface from escaping the wet area and causing damage to other materials and structural building elements. Water migration can occur from shower use, basins, and baths.
— Variations: Step Down; Hob/NIB; Side Panel; Level Entry; Doorway; Wall.
— Installation: Technokolla Waterstop Guidance.

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

FILA SOLUTIONS

A complete surface-care system that cleans, protects and maintains tile, stone and concrete from installation through long-term use, with clear product pairings for each substrate.

CLEANING (AFTER-LAYING, EPOXY, MAINTENANCE)

Products for everyday maintenance and periodic deep cleans across tile, stone and concrete, designed to remove grime and residues without damaging the surface or stripping protection.

FILA CLEANER PRO

All-purpose pH-neutral floor cleaner. Perfect for the ongoing maintenance of terracotta, porcelain stoneware, glazed ceramic tiles, quarry tiles, concrete, wood, natural stone, granite, agglomerates, tumbled marble, pebbles, and cobblestones; safe even on delicate stone.
— Pack: 1 L, 5 L.
— Coverage: ≈50 SQM/L at 1:30; up to ≈1500 SQM/L at 1:200.
— Suitability: Internal, External.

FILA DETERDEK PRO

An acid-based cleaner made for heavy-duty post-installation cleaning. It tackles tough residues like grout haze, efflorescence, lime scale, rust marks, and site dirt, without damaging acid-resistant surfaces. Unlike standard acid cleaners, it won't release harsh fumes or stain tiles and stone; it's safe on aluminium and steel profiles when used correctly.
— Pack: 1 L, 5 L.
— Coverage: ≈20–40 SQM/L depending on dilution (1:5–1:10).
— Suitability: Internal, External; acid-resistant materials only (See TDS).

FILA PS87 PRO

A professional-grade detergent made for deep cleaning and restoration; the 3-in-1 formula works as a floor cleaner, stain remover, and wax stripper, ideal for removing grease, old treatments, and stubborn grime from hard surfaces.
— Pack: 1 L, 5 L.
— Coverage: ≈20–100 SQM/L depending on dilution (1:5–1:10).
— Suitability: Internal, External.

FILA CR10

An epoxy grout residue remover for final cleaning of epoxy-grouted porcelain, ceramic and mosaics; quick-acting in 30 minutes, easy to apply on walls or floors.
— Pack: 1 L.
— Coverage: ≈10 SQM/L (used pure).
— Suitability: Internal, External.

FILA INSTANT REMOVER

Removes fresh cement grout residues (including additive-based grouts), cleans tile backs and tools, and prevents dull smears or streaks from leftover grout; also ideal for backs of large tiles before laying.
— Pack: 750 ml.
— Coverage: 350 LM
— Suitability: Internal, External.

FILA REFRESH & RESEAL

A ready-to-use countertop cleaner for marble, granite, travertine, limestone and quartzite; neutral formula ideal for delicate natural stone surfaces.
— Pack: 750 ml.
— Coverage: N/A
— Suitability: Internal only.

PRESEALER

Temporary pre-grout/installation protection that blocks staining and moisture rise during installation, making clean-up faster and reducing the risk of permanent marks.

FILA PW10

A pre-treatment applied to the back of absorbent natural stone and terracotta before laying prevents salts, tannins, and contaminants from migrating through the material, avoiding efflorescence, stains, and discolouration. Does not alter the appearance of the stone and allows water vapour to pass through. Tested and proven not to affect adhesion with Technokolla System.
— Pack: 5 L.
— Coverage: ≈75 SQM (used pure).
— Suitability: Internal, External.

PROTECTIVE SEALERS (STAIN-REPELLENT, WATER-REPELLENT, ENHANCING)

Penetrating treatments that reduce absorption of water and oils, shed rain on façades, and optionally enrich colour for a durable natural or enhanced finish.

FILA W68

Seals and protects porous material, such as rough-finish natural stone, terracotta and cement, from oily dirt. The eco-friendly product is water-based and is suitable for interior and exterior surfaces.
— Pack: 1 L, 5 L.
— Coverage: ≈7–10 SQM/L (2 coats).
— Suitability: Internal, External.

FILA MP90

A solvent-based, clear stain protector for polished stone, granite, and porcelain, ideally suited for protecting kitchen and bathroom tops. The water and oil repellent hampers the absorption of common stains, maintaining a natural look, and provides anti-graffiti protection on polished finishes.
— Pack: 1L
— Coverage: ≈20–40 SQM/L depending on surface and coats.
— Suitability: Internal, External.

FILA MP90 ECO XTREME

A water-based, low-odour version of MP90 for rapid, ecological stain protection for porcelain tiles, natural stone, marble, and granite with polished, brushed, and matt smoothed finishes.
— Pack: 1 L.
— Coverage: ≈10–30 SQM/L depending on surface.
— Suitability: Internal, External.

Surtec
TILING & WATERPROOFING SYSTEMS

Contact: Trade Supplies Limited (T/A Surtec)
30 Porana Road, Wairau Valley, Auckland, 0627
technokolla@surtec.co.nz or contact@surtec.co.nz
0800 NZ TRADE | surtec.co.nz

Surtec is the agent and distributor for Technokolla waterproofing and tiling systems, including NAC sheet membranes, and Fila Solutions, and the Techno range of high-performance tiling and flooring products to deliver complete, tested systems for waterproofing, flooring, tiling and surface care.

FILA STONEPLUS

A solvent-based, colour-enhancing protector for floors in natural stone, marble, granite, and agglomerates. It protects and revives the original colour (wet tone) while safeguarding the surface against water or oil-based stains and dirt.
— Pack: 1 L.
— Coverage: ≈30–50 SQM/L (1 coat) or ≈15–25 SQM/L (two-coat enhancing applications).
— Suitability: Internal, External.

FILA WET ECO

An Eco-friendly treatment: water-based, High resistance to intense traffic. Resistant to weathering and does not peel or yellow. Facilitates subsequent maintenance.
— Pack: 1 L.
— Coverage: ≈30–40 SQM/L at 1:1 dilution; some contexts list 7–20 SQM/L neat.
— Suitability: Internal, External.

FILA HYDROREP

An invisible water-repellent protector for interior and exterior surfaces that preserves the natural look of stones and concrete, offering a strong "drop effect" against rain ingress.
— Pack: 1 L.
— Coverage: ≈5–20 SQM/L depending on substrate and coats.
— Suitability: External (façades/verticals; follow TDS).

FILA HYDROREP ECO

A water-repellent for façades and verticals; helps prevent algae, efflorescence and damp staining; deeply penetrates the material while allowing the surface to breathe.
— Pack: 1 L.
— Coverage: ≈8–10 SQM/L in some guides; often 10–20 SQM/L depending on substrate.
— Suitability: External (verticals).

FILA CONCRETE HYDRO

A consolidating water-repellent for porous concrete and cement-based claddings, UV stable.
— Pack: 5 L.
— Coverage: up to ≈8 SQM/L.
— Suitability: Internal, External (primarily exterior verticals).

FILA SATIN

A protective wax suitable for terracotta, quarry tiles, unpolished stone, agglomerates, concrete, and cement tiles, providing a soft sheen and easier cleaning.
— Pack: 1 L.
— Coverage: ≈30–40 SQM/L (2 coats).
— Suitability: Internal floors only.

FILA MATT

A natural-effect finishing wax to reduce sheen while protecting the surface, providing a matte look for terracotta, quarry tiles, tumbled marble and natural stone floors.
— Pack: 1 L.
— Coverage: ≈30–40 SQM/L (2 coats).
— Suitability: Internal floors only.

PROBLEM SOLVERS

Targeted removers for stubborn issues such as oil and coloured stains, rust, silicone residues, algae and graffiti to restore appearance before or after sealing.

FILA SR95

A targeted stain remover for coloured organic stains like ink, wine, coffee, soft drinks and dyes. Unlike other cleaning products, the Fila SR95 works to remove ingrained stains from natural stone surfaces. It can be confidently used on natural stone as it doesn't attack the finish.
— Pack: 75 ml.
— Coverage: not stated (apply directly to stain).
— Suitability: Internal, External.

FILA NOSPOT

An oil-stain poultice spray that dries to a powder for easy lift-off, suitable for concrete, terracotta, quarry tiles, and natural stone.
— Pack: 200 ml.
— Coverage: not stated (spray/apply to stain).
— Suitability: Internal, External.

FILA ZEROSIL

A remover for silicone and polyurethane foam residues (with spatula kit), also useful on glue and tape marks.
— Pack: 250 ml.
— Coverage: not stated (apply undiluted to residue area).
— Suitability: Internal, External.

FILA NORUST

A ready-to-use, non-acidic rust remover for delicate surfaces. Gel consistency applies directly to stains, removing rust in around 15 minutes. Safe for marble, porcelain, natural stone, terracotta, concrete, and granite.
— Pack: 75 ml.
— Coverage: not stated (apply to stain per label).
— Suitability: Internal, External.

FILA NOPAINT STAR

A professional graffiti and smog remover for walls and outdoor claddings.
— Pack: 1 L.
— Coverage: ≈5 SQM/L (used pure).
— Suitability: External (can also assist on certain interior scenarios per label).