

TECHNOKOLLA AND FILA SOLUTIONS SPECIFICATION FOR PORCELAIN TILE AND SLAB SYSTEMS



Prepared by Trade Supplies Limited (T/A Surtec) for European Ceramics & Stone

A specifier-facing technical framework combining the Technokolla fixing system and Fila Solutions surface care for porcelain tiles and slabs, grouped by finish, for early-stage specification and technical scoping.

ITEM	DETAIL
Prepared for	European Ceramics & Stone ~ generic technical framework for project adaptation
Finishes covered	Glazed and matt, polished and lappato, textured and R11 anti-slip, micro-matt dry-glaze finishes (for example, Microtech and Stride Up types), and large-format porcelain panels and slabs
Issue purpose	Website reference, quotation support and specifier guidance, paired with project-specific information
Read with	Project drawings, substrate details, tile technical data, and current Technokolla and Fila technical data sheets (TDS)
Compliance basis	New Zealand Building Code (NZBC) clauses B2 Durability, E3 Internal Moisture, and E2 External Moisture where external work applies; AS 3958 for tiling; AS/NZS 4858 for membrane performance where a membrane is used; and the Tile Association of New Zealand (TANZ) Best Practice Guide

ABOUT SURTEC AND EUROPEAN CERAMICS

European Ceramics & Stone and Surtec provide a coordinated pathway for porcelain selection, fixing, waterproofing (where required), sealing, care and project-specific specification support. This document provides architects, specifiers, and clients with a technically clear starting point that can move from early design through to a project-specific review and issued specification.

WHO SURTEC IS

Surtec is a New Zealand specialist supplier of complete tiling, stone and waterproofing systems. Surtec supplies [Technokolla tiling and waterproofing systems](#), [NAC sheet membranes](#), [Fila Solutions surface care](#) products, plus trims, movement-joint accessories, waterstops and associated installation products for residential and commercial projects.

WHAT SURTEC SUPPORTS WITH

- ✓ Complete tile and stone fixing systems for internal and external applications.
- ✓ Waterproofing pathways for internal and external wet areas where required by design and substrate conditions.
- ✓ Adhesives, grouts, silicones, trims, movement joints and waterstops as part of a coordinated system selection.
- ✓ Fila care, protection and maintenance solutions for porcelain, natural stone, tile and associated surfaces.
- ✓ Generic technical frameworks, project-specific specifications, technical review, training and ongoing support.

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.

HOW ARCHITECTS, SPECIFIERS AND CLIENTS CAN ENGAGE

1. Use this framework for early design-stage system selection and scope definition.
2. Use the finish notes to identify the likely pathway and the points that require project confirmation.
3. Complete the project-specific information schedule and obtain a Technokolla-issued project-specific specification.

PROJECT SPECIFICATION SUPPORT

Project-specific specifications and technical review	technokolla@surtec.co.nz
Architects and specifiers hub	surtec.co.nz/pages/architects-specifiers
General enquiries and trade support	0800 NZ TRADE
Website	surtec.co.nz

DOCUMENT PURPOSE

This document is a specifier-facing technical framework for selecting Technokolla fixing systems, waterproofing pathways (where required), jointing, sealants and Fila Solutions care for porcelain tiles and slabs, grouped by finish. It is intended for early-stage specification and technical scoping and as a plain-language reference for architects, specifiers, and clients.

This document is not a final project-specific specification. Final system selection remains subject to confirmation of substrate, exposure, tile format and finish, movement requirements, detailing and whether waterproofing is required.

QUICK NAVIGATION

IF THE PROJECT INVOLVES	GO TO	ACTION
Scope, limits, product routes and specification process	Sections 3 to 6	Use for early-stage technical review and system selection
Glazed, matt, polished or lappato porcelain	Section 7	Use the relevant finish note, then request a project-specific specification.
Textured, R11 anti-slip or micro-matt dry-glaze finishes	Sections 7 and 9	Follow the finish note and the dedicated cleaning and maintenance section
Large-format panels and slabs	Section 7	Confirm substrate flatness, coverage and handling before fixing
Wet areas, pools, terraces, balconies or facades	Sections 6 and 10	Do not rely on the generic route; request a project-specific review

WHAT THIS FRAMEWORK COVERS

1. Porcelain tiles and slabs grouped by surface finish.
2. Generic Technokolla fixing pathways for internal and external floors and walls, where project conditions allow.
3. Waterproofing pathways for wet areas and external applications where required by design and substrate conditions.
4. Generic jointing, sealant and Fila care principles for porcelain, including the newer textured and dry-glaze finishes.
5. Clear triggers for when the generic framework stops and project-specific review is required.

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WHAT THIS FRAMEWORK DOES NOT COVER

1. Structural design of the substrate, framing or floor assembly.
2. Engineer-designed support, restraint or facade systems for large-format panels.
3. Resolution of structural cracking, movement, active leaks or rising damp.
4. Permanent immersion, pools, water features, steam rooms and saunas, or chemical exposure, unless specifically reviewed.
5. Heated substrates, unless specifically reviewed.
6. Confirmation that any nominated product suits every project condition, or substitution of products outside the complete Technokolla and approved Fila system.

INFORMATION REQUIRED BEFORE A PROJECT-SPECIFIC SPECIFICATION CAN BE ISSUED

Project and area	Project name, location, elevation or room breakdown and total area in SQM
Exposure	Interior or exterior, wet or dry, rain, UV, salts, chemicals, temperature range and %RH
Substrate	Type, age, moisture status, crack condition, coatings, contamination and planeness
Tile or slab	Porcelain type, format and thickness, finish (polished, matt, textured, R rating), panel or slab size
Waterproofing	Whether a membrane is required, and the wet-area or external exposure category
Falls and drainage	Falls, waste and channel positions confirmed by the builder or designer
Movement joints	Responsibility, locations, spacing and sealant colour confirmed by the designer
Programme	Curing windows, weather protection, foot-traffic time and handover date

GENERIC TECHNOKOLLA SYSTEM PATHWAYS

The table below shows only the likely pathway. Final system selection must be confirmed in the project-specific specification. Adhesive coverage is 85 to 95 per cent for internal dry areas and 90 to 100 per cent solid bed for wet areas, external areas, and large-format tiles, with no voids. Do not spot-fix.

PROJECT CONDITION	LIKELY MEMBRANE ROUTE	LIKELY ADHESIVE ROUTE
Internal dry floor or wall	No membrane unless required by design	Techno S-One C2TE S1, or Techno Rap / Techno Fast C2FT for rapid programmes
Internal wet area (bathroom, shower, laundry)	Techno Rasogum+ or Techno Rasolastik ADV , subject to detail and substrate	Techno S-One or Techno Star C2TE S1
External floor or wall, terrace or balcony where a membrane is required	Techno Rasolastik ADV or Techno Rasolastik EVO , subject to substrate and exposure	Techno S-One , Techno Star or Techno Flex-2 C2TE S2 for higher deformability
Large-format panels and thin slabs	As required by exposure and substrate	Techno Flex-2 C2TE S2, Techno Star (higher build) or Techno Air-One MC HD lightweight high-build
Pools and permanent immersion	Techno Rasolastik EVO or Techno Rasolastik ADV , with Techno Tapas Mesh only at reinforcement	Techno Epostuk epoxy or Techno S-One per TDS; escalate to Surtec

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PRODUCT USE SUMMARY

Primers

- [Techno Primer T](#) is the typical primer for absorbent mineral substrates. [Techno Primer T Plus](#) is used when highly absorbent substrates require additional consolidation.
- [Techno Primer 101 Plus](#) is the typical adhesion-promoting primer for non-absorbent or difficult surfaces.

Waterproofing membranes

- [Techno Rasogum+](#) is an internal wet-area membrane only.
- [Techno Rasolastik ADV](#) is the main flexible cementitious membrane route for internal and external work where a membrane is required.
- [Techno Rasolastik EVO](#) is the higher-duty route for more demanding external or immersed conditions, subject to project review.
- Reinforce corners, floor-to-wall junctions, changes in plane, penetrations and outlets. Use [Techno RL80](#) and [Techno RL300](#) for non-immersed detailing only, and [Techno Tapas Mesh](#) for wider or immersed reinforcement.

Adhesives

- [Techno S-One](#) C2TE S1 is the primary deformable adhesive for porcelain in most internal and external floor and wall applications.
- [Techno Star](#) C2TE S1 is the route for a higher bed build-up of up to 15 mm.
- [Techno Flex-2](#) C2TE S2 is the higher-deformability route for large-format porcelain, deformable substrates, facades, heated screeds and pools.
- [Techno Air-One MC HD](#) C2TE S1 is a lightweight, high-grab adhesive with a build-up of up to 25 mm for medium and large formats.
- [Techno Rap](#) and [Techno Fast](#) C2FT are rapid-set options for time-critical programmes.
- [Techno Epostuk](#) R2T epoxy is for mosaics, glass, and immersed zones, per the TDS.

Grout and sealant

- [Techno Colours](#) CG2 WA cementitious grout is the general-purpose route.
- [Techno Skycolors Evolution](#) RG epoxy grout is used where higher chemical resistance, lower absorption or higher hygiene performance is required, and for immersed work.
- [Techno Acesil](#) acid-cure silicone is for internal sanitary perimeters and changes of plane in non-immersed, protected areas only.
- [Maxisil N](#) neutral-cure silicone is for movement joints, external joints and exposed exterior locations. Confirm colour by sample. Do not grout movement joints; use a backing rod and correct sealant geometry.

PORCELAIN FINISH NOTES

Use the relevant finish note below. Each note is a finish-based starting point and must be read with Sections 3 to 6 and the cleaning and maintenance guidance in Section 9.

GLAZED AND MATT PORCELAIN

Typical use

Standard through-body or glazed porcelain in floor and wall applications, internal and external.

Likely Technokolla route

Confirm substrate and exposure, then use [Techno S-One](#) C2TE S1, with a membrane only where the wet area or external condition requires it.

Fila care route

End-of-installation wash with [FILA Deterdek Pro](#) for cementitious grout haze or [FILA PS87 Pro](#) for epoxy grout residue, then routine cleaning with [FILA Cleaner Pro](#).

Key notes

Glazed porcelain is non-absorbent and does not require sealing. Protect grout lines with [FILA Fugaproof](#) where staining is a concern.

POLISHED AND LAPPATO PORCELAIN

Typical use

Polished or semi-polished (lappato) porcelain for feature floors, walls and worktops, mainly internal.

Likely Technokolla route

As for glazed porcelain. Handle to avoid edge chipping and set out to keep lippage within tolerance using levelling aids.

Fila care route

End-of-installation wash with [FILA Deterdek Pro](#) (cement grout) or [FILA PS87 Pro](#) (epoxy grout). Apply [FILA MP90 Eco Xtreme](#) or [FILA MP90](#) stain protection to reduce marking on the micro-porosity opened by polishing.

Key notes

The polishing process opens fine surface porosity that can hold marks and stains. A stain-protective treatment is recommended for kitchen and bathroom surfaces. Maintain with [FILA Cleaner Pro](#); avoid abrasive pads.

TEXTURED AND R11 ANTI-SLIP PORCELAIN (GRIP FINISHES)

Typical use

Structured, grip and R11-type finishes (for example, Stride Up type) for external paving, wet-area floors, ramps and commercial traffic.

Likely Technokolla route

For external porcelain where a membrane is required, use [Techno Rasolastik ADV](#) or [Techno Rasolastik EVO](#), with [Techno S-One](#) or [Techno Flex-2](#) at 100 per cent solid bed for external and wet areas.

Fila care route

Full end-of-installation wash with [FILA Deterdek Pro](#) (cement grout) or [FILA PS87 Pro](#) (epoxy grout); use [FILA CR10](#) for stubborn residue. Apply [FILA Stop Dirt](#) dirt-repellent treatment to keep the texture easier to clean. Maintain with periodic [FILA PS87 Pro](#) and routine [FILA Cleaner Pro](#).

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Key notes

The surface texture that provides grip also traps grout haze and dirt, so end-of-installation washing and periodic deep cleaning are essential. Any dirt-repellent or protective treatment on a slip-rated floor must be confirmed not to reduce the slip rating; test a sample area against AS/NZS 4586 where slip resistance is a design requirement.

MICRO-MATT AND DRY-GLAZE FINISHES (FOR EXAMPLE, MICROTECH TYPE)

Typical use

Ultra-matt, silky, micro-textured dry-glaze finishes for floors and walls, valued for a soft, low-sheen appearance.

Likely Technokolla route

As for glazed or matt porcelain, with careful set-out. These finishes show installation residue and lippage readily, so control coverage, cleaning and levelling during fixing.

Fila care route

Full end-of-installation wash with [FILA Deterdek Pro](#) (cement grout) or [FILA PS87 Pro](#) (epoxy grout) before handover. Maintain only with pH-neutral [FILA Cleaner Pro](#) or [FILA PS87 Pro](#).

Key notes

Micro-matt finishes show smears, footprints, and streaks if cleaned with waxy, oily, or film-forming products. Do not use supermarket shine cleaners, oil-based soaps, wax, bleach or ammonia as routine cleaners, and do not apply film-forming sealers. See Section 9 for the full cleaning and maintenance guidance to pass on to clients.

LARGE-FORMAT PORCELAIN PANELS AND SLABS

Typical use

Thin large-format porcelain panels and slabs for floors, walls and worktops.

Likely Technokolla route

Confirm substrate flatness to a maximum of 3 mm over 2 m and 1 mm over 300 mm. Use [Techno Flex-2](#) C2TE S2, [Techno Star](#) (higher build) or [Techno Air-One MC HD](#), with back-buttering and 100% solid bed. Verify by lifting a panel.

Fila care route

End-of-installation wash and protection are selected by the panel finish, as noted above for the matching finish.

Key notes

Large-format panels demand suction handling frames, dry-lay set-out and a control sample of at least 1 SQM. Carry movement and control joints through to the substrate. Confirm handling, structural support and any facade fixing with the designer and, for panels, with the Surtec Technical Team.

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FILA CARE, PROTECTION AND MAINTENANCE PATHWAY

STAGE	GENERIC ROUTE	KEY NOTE
End-of-installation wash (cement grout)	FILA Deterdek Pro	Acid-safe porcelain and ceramic only. Test resistance first; do not use on adjacent acid-sensitive stone.
End-of-installation wash (epoxy grout)	FILA PS87 Pro or FILA CR10	Removes epoxy film and polymer haze from the surface and texture
Dirt-repellent protection (textured floors)	FILA Stop Dirt	Makes rough and R11 finishes easier to keep clean. Confirm slip rating is retained.
Stain protection (polished porcelain)	FILA MP90 Eco Xtreme or FILA MP90	Natural effect. Recommended for polished tops and splashbacks
Routine maintenance	FILA Cleaner Pro	pH-neutral. Dilute per label. Suits all porcelain finishes
Periodic deep clean	FILA PS87 Pro	Degreases and lifts traffic grime from textured surfaces.
Grout care	FILA Fugaproof and FILA Fuganet	Protect and clean grout joints

CLEANING AND MAINTENANCE OF TEXTURED AND DRY-GLAZE PORCELAIN FINISHES

The newer textured, R11 and micro-matt dry-glaze porcelain finishes perform well, but the surface texture that gives them grip or a soft matt look also holds installation residue and everyday dirt. Most cleaning enquiries about these finishes come back to two things: residue left after installation, and the wrong products used in service. The guidance below can be included with each quote.

1. Remove all installation residue before handover

- Grout haze and polymer film settle into the micro-texture, making them difficult to remove later. Carry out a full end-of-installation wash before the surface is handed over.
- For cementitious grout, use [FILA Deterdek Pro](#) (a buffered acid descaler, safe on porcelain). For epoxy grout, use [FILA PS87 Pro](#), and [FILA CR10](#) for stubborn epoxy or cement residue. Always test a small area first and follow the tile maker's cleaning guidance.

2. Use only pH-neutral cleaners in service

- Micro-matt and silky finishes show smears, footprints, and streaks when cleaned with waxy, oily, or film-forming products. Use [FILA Cleaner Pro](#) for routine cleaning and [FILA PS87 Pro](#) for periodic degreasing.
- Do not use supermarket shine cleaners, oil-based soaps, wax, bleach or ammonia as routine cleaners, and never apply a film-forming or gloss sealer to a matt finish.

3. Keep textured and R11 floors easy to clean

- Structured grip finishes hold dirt in the texture, and ordinary mopping will not lift it. Programme periodic deep cleaning with [FILA PS87 Pro](#).
- Where dirt pick-up is a concern, apply [FILA Stop Dirt](#) dirt-repellent treatment, which makes the texture easier to keep clean without forming a film.

4. Protect slip resistance

- Any protective or dirt-repellent treatment on a slip-rated floor must be confirmed not to reduce the slip rating. Test a sample area and confirm against AS/NZS 4586 where slip resistance is a design requirement. Note that sealers and surface treatments can affect slip resistance, and that poor cleaning can reduce it over time.

5. Sealing is optional for porcelain

- Porcelain is non-absorbent, so sealing is not required for water resistance. Use stain protection only on polished finishes (open microporosity) and dirt-repellent treatment only on textured floors. Do not seal a matt or glazed body.

Fila online resources worth bookmarking: the [Fila Stone and Material Selector](#), the [What Should You Do If guide](#), and the [Fila stone and tile care blog](#).

QUALITY ASSURANCE AND HOLD POINTS

1. Substrate accepted before primer or membrane work.
2. Primer type and area recorded before the membrane work, where a membrane is applied.
3. Reinforcement layout accepted before the second membrane coat.
4. Wet film thickness (WFT) and dry film thickness (DFT) records were completed for membrane coats, where applied.
5. Membrane cured, and flood test passed, before tiling, where a membrane is applied.
6. Control sample or mock-up accepted before full production.
7. Adhesive coverage checks are completed during installation by lifting tiles.
8. Pre-grout and pre-sealant review completed.
9. The end-of-installation wash and protection test area is accepted before handover.

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MANDATORY PROJECT-SPECIFIC REVIEW TRIGGERS

- ☐ Unknown or mixed substrate, or substrate flatness outside large-format tolerance.
- ☐ Wet areas, pools, water features, steam rooms and saunas.
- ☐ External floors, terraces, balconies, decks and facades.
- ☐ Large-format panel facades or any panel needing mechanical support.
- ☐ Movement, cracking, active leaks or rising damp.
- ☐ Heated substrate, chemical or immersed exposure.

HOW TO OBTAIN A PROJECT-SPECIFIC SURTEC SPECIFICATION

Submit the schedule below with the relevant drawings and details. Surtec will confirm the applicable route, review whether the generic framework remains suitable, and issue a project-specific specification where appropriate.

REQUIRED ITEM	PROJECT RESPONSE
PROJECT NAME AND LOCATION	
AREA IN SQM	
PORCELAIN TYPE, FORMAT AND FINISH	
INTERIOR OR EXTERIOR	
WET, DRY OR SPLASH EXPOSURE	
SUBSTRATE TYPE AND AGE	
MOISTURE STATUS OR TEST RESULT	
TILE OR STONE SIZE, THICKNESS AND WEIGHT PER SQM	
SURFACE FINISH (POLISHED, MATT, TEXTURED, R RATING)	
WHETHER WATERPROOFING IS REQUIRED	
FALLS AND DRAINAGE CONFIRMED BY BUILDER OR DESIGNER	
MOVEMENT-JOINT RESPONSIBILITY AND LAYOUT	
PROGRAMME AND HANDOVER DATE	
ATTACHED DRAWINGS AND DETAILS	

Project specification support: technokolla@surtec.co.nz | 0800 NZ TRADE | surtec.co.nz

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APPENDIX A. GENERAL SUPPLIER AND SPECIFICATION DETAILS

MANUFACTURERS' DOCUMENTS: Documents referring to the materials specified are available from Trade Supplies Ltd (T/A Surtec). Manufacturer: Sika Italia S.p.A., Via Radici In Piano 558, 41049 Sassuolo (MO), Italy.

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

- [Technokolla Rasolastik Exterior Waterproofing Membranes, BRANZ #541](#)
- [Technokolla Rasolastik and Rasogum+ Wet Area Membranes, BRANZ #542](#)

TANZ SYSTEM APPRAISAL 12122: All tile products listed in the [Technokolla Waterproof Membrane and Tile Adhesive System TANZ appraisal](#) comply with AS 4858, the Installation of Waterproofing and Associated Membranes (IWAM) Code of Practice, and AS 3958.

STANDARDS COMPLIANCE: Install in accordance with AS 3958 for tiling and AS 3740 for internal wet areas. Membrane performance to AS 4858. Follow the IWAM Code of Practice for internal wet areas and the Tile Association of New Zealand (TANZ) Best Practice Guide. Supports New Zealand Building Code (NZBC) E3 Internal Moisture, E2 External Moisture and B2 Durability.

TECHNICAL DRAWINGS: Project-specific details showing waterstops, 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.

COMPLETE SYSTEM: The [Technokolla Tiling and Waterproofing System](#) meets New Zealand requirements. Use the complete Technokolla system with Fila Solutions surface care. No substitutions without Surtec's written approval. Mixing with non-approved products may void approvals and warranty.

RESPONSIBILITIES: The installer verifies substrate soundness, cure, moisture status, planeness, crack condition, contaminants and product suitability before starting. Record moisture and planeness before membrane works. Protect fresh work within TDS environmental limits. The designer is responsible for falls, drainage, movement joints and structure.

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.

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

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