

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 AND FILA SOLUTIONS SPECIFICATION FOR NATURAL STONE AND MARBLE 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 natural stone and marble, grouped by stone behaviour and finish, for early-stage specification and technical scoping.

ITEM	DETAIL
Prepared for	European Ceramics & Stone ~ generic technical framework for project adaptation
Stone covered	Marble, granite, limestone, travertine and quartzite, plus agglomerate and engineered stone, in polished, honed, brushed and tumbled finishes, across floors, walls and wet areas.
Issue purpose	Website reference, quotation support and specifier guidance, paired with project-specific information
Read with	Project drawings, substrate details, stone 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 natural stone 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.

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HOW ARCHITECTS, SPECIFIERS AND CLIENTS CAN ENGAGE

- Use this framework for early design-stage system selection and scope definition.
- Use the finish notes to identify the likely pathway and the points that require project confirmation.
- Submit the project-specific information schedule in Appendix B to obtain a Surtec-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, non-staining sealants and Fila Solutions care for natural stone and marble, grouped by stone behaviour and 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, stone properties, absorption, acid sensitivity, dead load, 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
Low or high absorbency stone	Section 7	Use the relevant stone note, then request a project-specific specification
Acid-sensitive stone (marble, limestone, travertine)	Sections 7 and 9	Follow the acid-sensitive guidance for jointing, sealing and cleaning
Polished stone, marble and worktops	Sections 7 and 9	Use stain protection and the marble care guidance
Exterior stone, wet areas, pools, facades or decks	Sections 6 and 10	Do not rely on the generic route; request a project-specific review
Project-specific Surtec specification request	Appendix B	Submit the schedule and drawings

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WHAT THIS FRAMEWORK COVERS

- ✓ Natural stone and marble grouped by absorbency, acid sensitivity and finish.
- ✓ Generic Technokolla adhered fixing pathways for internal and external floors and walls, where project conditions allow.
- ✓ Waterproofing pathways for wet areas and external applications where required by design and substrate conditions.
- ✓ Generic jointing, non-staining sealant and Fila care, sealing and maintenance principles for natural stone.
- ✓ Clear triggers for when the generic framework stops and project-specific review is required.

WHAT THIS FRAMEWORK DOES NOT COVER

- Structural design of the substrate, framing or wall assembly.
- Engineer-designed mechanical restraint, facade support or cavity systems.
- Resolution of structural cracking, movement, active leaks or rising damp.
- Permanent immersion, pools, water features, steam rooms and saunas, or chemical exposure, unless specifically reviewed.
- Heated substrates, unless specifically reviewed.
- Confirmation that any nominated product suits every stone or 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
Stone	Type, thickness, size range, finish, absorption, acid sensitivity, moisture sensitivity and weight per SQM
Support	Whether mechanical restraint may be required by stone weight, height, wind suction, substrate condition or engineer design
Waterproofing	Whether a membrane is required, and whether the stone is exposed to moisture from the rear face
Movement joints	Responsibility, locations, spacing and sealant colour confirmed by the designer
Programme	Curing windows, weather protection, access dates 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. For light, translucent and moisture-sensitive stone, use a white adhesive and confirm compatibility to avoid shadowing and staining. Adhesive coverage is 90 to 100 per cent solid bed for stone, wet areas, and external work, 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 Stone Maxi C2FT S1 (ultra-white) or Techno S-One C2TE S1

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Internal wet area	Techno Rasogum+ or Techno Rasolastik ADV , subject to detail and substrate	Techno Stone Maxi or Techno S-One , subject to stone compatibility
External wall or floor where a membrane is required	Techno Rasolastik ADV or Techno Rasolastik EVO , subject to substrate and exposure	Techno S-One or Techno Star C2TE S1, subject to stone compatibility
Damp-affected stone or difficult substrate	As required by exposure and substrate	Techno All 9000 R2T polyurethane for special details and small areas
Translucent stone, mosaics or immersion	Techno Rasolastik EVO , with Techno Tapas Mesh only at reinforcement	Techno Epostuk R2T epoxy per TDS; escalate to Surtec

PRODUCT USE SUMMARY

Primers

- [Techno Primer T](#) is the typical primer for absorbent mineral substrates. [Techno Primer T Plus](#) is used on highly absorbent substrates. [Techno Primer 101 Plus](#) is the 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 for internal and external work. [Techno Rasolastik EVO](#) is the higher-duty route for more demanding external or immersed conditions.
- Reinforce corners, junctions, changes in plane and penetrations. Use [Techno RL80](#) and [Techno RL300](#) for non-immersed detailing only, and [Techno Tapas Mesh](#) for wider or immersed reinforcement.

Adhesives

- [Techno Stone Maxi](#) C2FT S1 is the preferred ultra-white, high-build adhesive for natural stone and marble, helping prevent shadowing under light and translucent stone.
- [Techno S-One](#) C2TE S1 is the primary deformable adhesive for stone in large formats, facades and external service, subject to stone compatibility.
- [Techno Star](#) C2TE S1 is the route where a higher bed build-up of up to 15 mm is required, and the stone is confirmed to be unaffected by water.
- [Techno All 9000](#) R2T polyurethane suits damp-affected stone, difficult substrates and special details. [Techno Epostuk](#) R2T epoxy suits translucent stone, mosaics and immersed zones.
- Where specified by TDS, [Techno TC Lastic](#) can improve flexibility and bond. Do not use as an unapproved site additive or change ratios outside the TDS.

Grout and sealant

- Grout only where the format and detailing call for grouted joints. Use [Techno Colours](#) CG2 WA cementitious grout where the stone, joint width and exposure suit it, and [Techno Skycolors Evolution](#) RG epoxy grout where higher chemical resistance, lower absorption or hygiene performance is required.
- For movement joints, external joints, exposed exterior and acid-sensitive stone interfaces, use [Maxisil N](#) neutral-cure, non-staining silicone. Confirm colour by sample.
- [Techno Acesil](#) acid-cure silicone is for internal sanitary perimeters in non-immersed, protected areas only, and must not be used against acid-sensitive stone. Do not grout movement joints; use a backing rod and correct sealant geometry.

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NATURAL STONE NOTES

Use the relevant stone note below. Each note is a starting point based on stone behaviour and must be read with Sections 3 to 6 and the care and maintenance guidance in Section 9. Always confirm absorption and acid sensitivity for the specific stone, and test any treatment on a sample first.

LOW-ABSORBENCY STONE (FOR EXAMPLE, GRANITE AND MANY QUARTZITES)

Typical use

- Dense, low-porosity stone for floors, walls, worktops and external paving.

Likely Technokolla route

- Confirm substrate and exposure, then use [Techno Stone Maxi](#) or [Techno S-One](#), with a membrane when the wet area or external conditions require it.

Fila care route

- Pre-treat backs and edges with [FILA PW10](#) where efflorescence or migration is a risk. Apply [FILA MP90 Eco Xtreme](#) or [FILA MP90](#) stain protection to polished surfaces. Clean routinely with [FILA Cleaner Pro](#).

Key notes

- A low-absorbency stone needs only light sealing. Confirm suitability on a sample. Avoid acidic cleaners on any polished surface.

HIGH-ABSORBENCY STONE (FOR EXAMPLE, LIMESTONE, TRAVERTINE AND SANDSTONE)

Typical use

- Porous stone for floors, walls and external applications is more prone to staining and water uptake.

Likely Technokolla route

- Pre-treat backs and edges with [FILA PW10](#) before laying to block efflorescence and salt migration. Fix with [Techno Stone Maxi](#) (white) or [Techno S-One](#). Use a membrane when exposure is required.

Fila care route

- Seal with [FILA W68](#) water-based stain protection or [FILA Hydrorep Eco](#) / [FILA Hydrorep](#) for breathable water repellency on exterior stone. Enhance colour with [FILA Stoneplus](#) for a richer look. Clean with [FILA Cleaner Pro](#).

Key notes

- These stones are usually acid-sensitive. Do not use acidic cleaners or acid-cure silicone. Test water repellency and any enhancer on a sample for appearance and slip resistance before full application.

ACID-SENSITIVE STONE AND MARBLE (POLISHED AND HONED)

Typical use

- Marble, limestone, travertine and onyx in polished or honed finishes for feature floors, walls, vanities and worktops.

Likely Technokolla route

- Fix with [Techno Stone Maxi](#) ultra-white to avoid shadowing. For translucent marble and onyx, confirm a white or [Techno Epostuk](#) epoxy bed to prevent show-through. Handle to protect polished surfaces.

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Fila care route

- Apply [FILA MP90 Eco Xtreme](#) or [FILA MP90](#) stain protection. Clean only with pH-neutral [FILA Cleaner Pro](#). Repair light etching and restore sheen with the [FILA Marble Restore Kit](#), and use [FILA Refresh & Reseal](#) on stone worktops.

Key notes

- Acid etches and dulls these stones. Never use acidic cleaners (including [FILA Deterdek Pro](#)), vinegar, or acid-cure silicone. Seal only, and use [Maxisil N](#) neutral-cure, non-staining silicone at junctions.

TUMBLLED, BRUSHED AND SAND-BLASTED FINISHES

Typical use

- Textured stone finishes for floors, walls and external paving where grip and a natural look are wanted.

Likely Technokolla route

- As for the matching absorbency note above, with full end-of-installation cleaning to clear residue from the texture.

Fila care route

- Seal with [FILA W68](#) or [FILA Hydrorep Eco](#) based on absorbency and exposure. Clean with [FILA Cleaner Pro](#) and degrease periodically in high-traffic areas.

Key notes

- Textured finishes trap grout haze and dirt, so end-of-installation washing and periodic cleaning are essential. Confirm that the finish and any treatment do not reduce the required slip rating.

AGGLOMERATE AND ENGINEERED STONE

Typical use

- Resin or cement-bound agglomerates and engineered stone slabs for floors, walls and worktops, mainly internal.

Likely Technokolla route

- Confirm the binder and the manufacturer's fixing requirements. Use [Techno Stone Maxi](#) or [Techno S-One](#) for resin-bound slabs on difficult substrates; [Techno All 9000](#) may suit per TDS.

Fila care route

- Protect polished surfaces with [FILA MP90 Eco Xtreme](#), where the maker allows it, and clean with [FILA Cleaner Pro](#).

Key notes

- Resin agglomerates can be heat- and solvent-sensitive and are not always exterior-stable. Confirm suitability and any treatment with the manufacturer and, for exterior or wet use, with the Surtec Technical Team.

FILA CARE, PROTECTION AND MAINTENANCE PATHWAY

STAGE	GENERIC ROUTE	KEY NOTE
Pre-treatment before laying	FILA PW10	On the backs and edges of absorbent stone to block efflorescence and staining
Stain protection (natural effect)	FILA W68 or FILA MP90 Eco Xtreme	W68 for absorbent stone; MP90 for polished stone and worktops

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Water repellence (exterior)	FILA Hydrorep Eco or FILA Hydrorep	Breathable protection for exterior absorbent stone. Test a sample first.
Colour enhancement	FILA Stoneplus	Enhances and protects. Confirm the appearance of a sample.
Routine maintenance	FILA Cleaner Pro	pH-neutral. Safe on acid-sensitive stone
Marble restoration and stains	FILA Marble Restore Kit , FILA SR95	Restore etched marble; SR95 for oil and grease stains
Grout care	FILA Fugaproof and FILA Fuganet	Protect and clean grout joints

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NATURAL STONE CARE AND MAINTENANCE

Natural stone rewards the right care and is damaged by the wrong products. The guidance below can be included with each quote. Always identify the stone and test any product on a sample first.

1. Seal at the right stage

Pre-treat backs and edges of absorbent stone with [FILA PW10](#) before laying to stop efflorescence and salt staining. After installation and full cure, apply the stain-protective or water-repellent sealer suited to the stone and finish.

2. Match the sealer to the stone

Absorbent stone: [FILA W68](#) for natural-effect stain protection, or [FILA Hydrorep Eco](#) for breathable exterior water repellency. Polished stone and marble: [FILA MP90 Eco Xtreme](#) or [FILA MP90](#). For a richer look, [FILA Stoneplus](#).

3. Protect acid-sensitive stone

Marble, limestone and travertine etch on contact with acids. Never use acidic cleaners (including [FILA Deterdek Pro](#)), vinegar or lemon, and never use acid-cure silicone against these stones. Use [Maxisil N](#) neutral-cure silicone at junctions.

4. Clean with neutral products

Use [FILA Cleaner Pro](#) for routine cleaning on all stone. Treat oil and grease stains with [FILA SR95](#), and rust marks with [FILA No Rust](#). Restore etched or dulled marble with the [FILA Marble Restore Kit](#).

5. Protect slip resistance and appearance

Confirm any sealer or enhancer on a sample for appearance and, on floors, for slip resistance in accordance with AS/NZS 4586, where slip resistance is a design requirement. Reseal periodically as the treatment wears.

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 stone fixing, where a membrane is applied.
6. Back-treatment is recorded where absorbent stone is pre-treated before laying.
7. Control sample or mock-up accepted before full production.
8. Adhesive coverage checks are completed during installation by lifting the stone.
9. Pre-grout, pre-sealant and final cleaning and protection test area accepted before handover.

MANDATORY PROJECT-SPECIFIC REVIEW TRIGGERS

- ☐ Unknown or mixed substrate, or dead load not confirmed.
- ☐ Potential need for mechanical restraint, facade height, or wind-suction concerns.
- ☐ Exterior stone in wet or immersed locations, pools, decks and balconies.
- ☐ Retaining, below-grade or negative-side moisture conditions.

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- ☐ Movement, cracking, active leaks or rising damp.
- ☐ Heated substrate, chemical or immersed exposure.
- ☐ Translucent stone, or any stone of uncertain absorption or acid sensitivity.

HOW TO OBTAIN A PROJECT-SPECIFIC SURTEC SPECIFICATION

Submit the schedule in Appendix B 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	
STONE TYPE, FINISH AND ABSORPTION	
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.