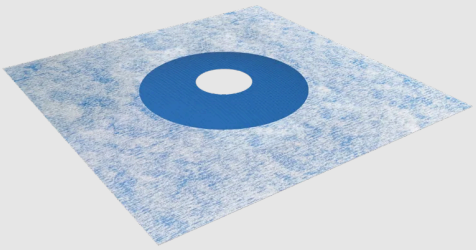
FORSPEC SUPERFLEX COLLAR.



Technical Data Sheet | Pre-Formed Elastic Tpe Waterproofing Collar for Pipe and Tap Penetrations | Issue date: 25 August 2026

Description

FORSPEC SUPERFLEX COLLAR is a pre-formed thermoplastic elastomer waterproofing collar laminated with a felt bonding layer on both faces, manufactured from the same material system as FORSPEC SUPERFLEX JOINT TAPE. A central elastic zone stretches from a 10 mm penetration up to 40 mm, so the collar grips the pipe under its own recovery rather than relying on a sealant to close the gap.

The felt facing is what integrates it into the membrane. Liquid membrane is drawn into the open felt structure and cures within it, so the collar is not stuck onto the membrane but locked inside it — encapsulated from below by the base coat and from above by the second, becoming part of the membrane rather than a patch over it. That matters at a penetration because the pipe and the substrate move independently: the elastic core absorbs that differential movement while the felt keeps the bond intact on both sides of it. Penetrations are the highest-risk failure point in a wet area, and this detail removes the discontinuity that causes it.

Advantages

- Pre-formed to a consistent size and shape — the detail is repeatable rather than dependent on how it is cut and dressed on site.
- Central elastic zone grips penetrations from 10 mm to 40 mm under its own recovery.
- Dual felt facings lock the collar inside the membrane from above and below.
- Absorbs differential movement between the pipe and the substrate.
- Removes the discontinuity at penetrations — the highest-risk failure point in a wet area.
- Minimal added thickness, so the detail does not build up under tiling.
- Wide service temperature range, −30°C to +90°C.
- Compatible with polyurethane, cementitious and hybrid liquid membrane systems.
- Fast and consistent to install, with a clear visual check that it is correctly embedded.
- Companion to FORSPEC SUPERFLEX JOINT TAPE — the same material system across junctions and penetrations.

Uses and Approved Basis

- Tap penetrations in bathrooms, laundries and kitchens.
- Shower outlets and plumbing fixture penetrations.
- Pipe penetrations through walls and floors.
- External wall service penetrations.
- Commercial wet areas and plant rooms.
- Any liquid membrane system requiring a pre-formed penetration detail.

Approved basis: FORSPEC SUPERFLEX COLLAR is a detailing component and is not a waterproofing membrane. It must be embedded within a liquid membrane system and is not designed for stand-alone use. Compliance is established by the membrane system in which it is embedded, installed in accordance with AS 3740:2021 and the National Construction Code for wet areas, or AS 4654.2-2012 for external above-ground work.

System Components

FORSPEC SUPERFLEX COLLAR is embedded within a complete FORSPEC waterproofing system. Approved system components:

- Membranes — ACTFLEX 906 WPU and the FORSPEC liquid membrane range, including cementitious and hybrid systems.
- Junction detailing — FORSPEC SUPERFLEX JOINT TAPE, the same material system, for wall-floor junctions, cold joints and transitions.
- Gap filling — ACTFLEX 75FC or ACTFLEX MS PRO, for filling gaps and oversized penetrations before the collar is installed.

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System Components (continued)

- Primers — as required by the membrane system specified, per that primer's TDS.
- Tile fixing — ACTFLEX BIOSET or a compatible cement-based tile adhesive, applied once the membrane has fully cured.

Use only the components above, applied per their current TDS, to maintain system compliance and warranty eligibility. Substitution of non-FORSPEC components voids system warranty eligibility.

Standards Compliance

STANDARD	TITLE	POSITION	EVIDENCE
AS 3740:2021	Waterproofing of domestic wet areas	Installation must comply with this standard. Compliance is established by the membrane system in which the collar is embedded.	Refer to the membrane TDS
AS 4654.2-2012	Waterproofing membranes for external above-ground use — Part 2: Design and installation	Installation must comply with this standard for external above-ground work.	Refer to the membrane TDS
National Construction Code	Wet area waterproofing	Installation must comply with NCC requirements.	—
AS/NZS 4858 and AS 4654.1	Membrane classification	Not applicable. The collar is a detailing component, not a membrane, and carries no classification.	—
Water pressure resistance	Resistance to water under pressure	Greater than 1.5 bar.	Forspec R&D *
Volatile organic compounds	VOC content	Not applicable — factory-manufactured TPE component.	—

* Indicative design characteristics established by Forspec R&D on standard production material. These are general guide values, not accredited laboratory test results, and are not to be relied upon for engineering design without written confirmation from FORSPEC Technical Services.

Technical Data

PROPERTY	VALUE	BASIS
Product type	Pre-formed TPE waterproofing collar for pipe and tap penetrations	—
Material structure	Thermoplastic elastomer elastic core with dual felt laminate	—
Colour	Blue	—
Size	120 mm × 120 mm	—
Thickness	Approx. 0.65 mm	—
Central hole size	10 mm, expandable to 40 mm	—
Maximum expansion	40 mm — do not stretch beyond this limit	—
Elongation at break	Greater than 320%	*
Water pressure resistance	Greater than 1.5 bar	*
Service temperature range	−30°C to +90°C	*
Membrane compatibility	Polyurethane, cementitious and hybrid liquid membrane systems	*

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Technical Data (continued)

PROPERTY	VALUE	BASIS
Installation requirement	Embedded into wet membrane — refer to Installation	—
Packaging	Supplied as individual pre-formed collars	—
Shelf life	24 months, stored dry and shaded	—
SDS	The collar is a factory-manufactured TPE component. Refer to the Safety Data Sheet of the membrane and primer system used with it.	—

* Indicative design characteristics established by Forspec R&D on standard production material. These are general guide values, not accredited laboratory test results, and are not to be relied upon for engineering design without written confirmation from FORSPEC Technical Services.

Limitations

- THE MEMBRANE MUST BE WET DURING EMBEDMENT. Do not install into tacky, semi-dry, skinned or cured membrane — the felt will not saturate and the collar will not bond.
- Not a membrane. The collar must be embedded within a liquid membrane system and is not designed for stand-alone use.
- Not a substitute for proper sealing of large gaps or voids. Fill gaps and oversized penetrations with ACTFLEX 75FC or ACTFLEX MS PRO before the collar is installed.
- The pipe or penetration must be rigid and securely fixed. A moving penetration will work the collar loose regardless of how well it is embedded.
- Do not stretch beyond the 40 mm expansion limit. Beyond that the elastic core is over-extended and loses its recovery.
- Not suitable for UV-exposed applications without protection.
- Not suitable for negative pressure waterproofing.
- Avoid sharp edges and burrs at the penetration that may puncture the collar. Deburr the pipe before installing.
- Do not tile or cover until the membrane has reached full cure per the membrane TDS.
- Installation must comply with AS 3740:2021 and the National Construction Code.

Surface Preparation

- Substrate condition — the substrate must be clean, dry and structurally sound.
- Cleaning — remove all dust, laitance, oils and contaminants from the area around the penetration.
- Penetration fixity — confirm the pipe or penetration is firmly fixed with no movement. A loose penetration must be secured before waterproofing proceeds.
- Deburring — remove sharp edges and burrs from the pipe that could puncture the collar.
- Gaps and oversized penetrations — fill with ACTFLEX 75FC or ACTFLEX MS PRO and allow to cure per that product's TDS. The collar seals a penetration; it does not bridge a void.
- Priming — apply primer where required by the membrane system specified, per that primer's TDS, and allow to dry.

Installation

The membrane must be wet during embedment. This is the single requirement on which the detail depends — a collar pressed into tacky or skinned membrane will not saturate the felt and will not bond.

STAGE	REQUIREMENT	CHECK
Apply base membrane coat	Apply a generous, wet coat of compatible membrane around the penetration, extending a minimum of 150 mm around the pipe.	150 mm coverage, coat still wet
Position the collar	Stretch the collar over the penetration so the central zone grips the pipe. The collar must sit flat with no lifting edges.	Tight compression fit, sitting flat
Embed immediately	Press the collar into the wet membrane, working from the centre outward.	Embedded while membrane is wet
Work the material	Use a brush, roller or trowel to remove all air pockets, eliminate creases and folds, and fully saturate the felt.	No air, no creases

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Installation (continued)

STAGE	REQUIREMENT	CHECK
Confirm bleed-through	Membrane must bleed through the felt layer. This is the visual confirmation that the felt is saturated and the bond will form.	Membrane visible through the felt
Inspect	Confirm no dry spots, no trapped air, no lifting edges and full contact to the substrate.	All four checks passed
Encapsulate	Apply the second membrane coat to fully encapsulate the collar — refer to Encapsulation below.	Collar fully covered

Encapsulation

The collar is only complete once it is encapsulated from above as well as below. An embedded but uncovered collar is a partial detail and will lift at the edges.

- **Option A — wet-on-wet (preferred)**
  Apply the second coat over the collar immediately, while the base coat is still wet, fully encapsulating the collar in the same application cycle. This produces the most complete integration because both coats cure together as one film.
- **Option B — delayed overcoat**
  Where site conditions prevent a wet-on-wet application, allow the initial membrane coat to tack off properly, then apply the second coat to fully encapsulate the collar. Confirm the base coat has tacked off rather than skinned before overcoating. Follow the membrane manufacturer's curing times, apply additional coats as required by the system specification, and do not tile or cover until full cure is achieved.

Common Installation Failures

Every failure below has the same result — water passes at the penetration. Each is avoidable and each is visible at the time of installation.

- Embedding into dry membrane — the felt does not saturate and the collar sits on the surface instead of inside it.
- Air bubbles trapped under the collar — an unbonded void directly at the penetration.
- Creases not flattened out — every crease is a channel through the detail.
- Insufficient membrane thickness — too little material to saturate the felt and encapsulate the collar.
- No topcoat encapsulation — the collar is embedded from below only and will lift at the edges.
- Loose or moving pipe penetration — the detail is worked loose in service regardless of installation quality.

Consumption

MEASURE	VALUE	BASIS
Collar size	120 mm × 120 mm	—
Collars required	One per penetration	—
Membrane coverage area per collar	Minimum 150 mm around the pipe	Base coat requirement
Approximate membrane area per penetration	Approx. 0.07–0.10 m^2 per coat	A 300–350 mm diameter treated zone around the pipe
Coats required	Two — base coat and encapsulating coat	—

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Consumption (continued)

Count the penetrations before ordering: taps, shower outlets, floor wastes, spouts and service protrusions are each a separate collar. Membrane consumption at penetrations is additional to the field coverage calculated from the membrane TDS, and detail work consumes more per square metre than open floor.

Drying, Curing and Testing Times

The collar itself does not cure. All times are governed by the membrane in which it is embedded, at 25°C and 50% RH.

STAGE (AT 25°C, 50% RH)	REQUIREMENT
Embedment	Immediate — into wet membrane, before the base coat skins
Encapsulating coat — Option A	Immediately, wet-on-wet
Encapsulating coat — Option B	Once the base coat has tacked off, per the membrane TDS
Full cure	Per the membrane TDS
Flood testing	After full cure of the membrane system
Tiling or covering	After full cure and a successful flood test

Flood Testing

Flood test the completed membrane system after full cure and before tiling or covering, in accordance with the membrane TDS, the project specification and AS 3740:2021 or AS 4654.2 as applicable.

Penetrations are the detail a flood test exists to prove. Inspect the underside at every penetration specifically throughout the test period, not only the general area. Where ingress is found at a penetration, cut out the collar and the surrounding membrane, re-prepare, and reinstate the detail in full before re-testing — a collar that has failed cannot be repaired by coating over it.

Clean Up

The collar itself requires no clean-up. Clean membrane from tools and equipment while wet, in accordance with the membrane TDS and its Safety Data Sheet. Remove offcuts and packaging from the work area as the work proceeds.

Do not allow membrane residue, solvent or wash water to enter sewers, stormwater systems or waterways. Manage and dispose of all washings in accordance with the relevant State or Territory environment protection legislation and local council requirements.

Container and Waste Disposal

Unused collars, offcuts and packaging are inert and may be disposed of as construction waste in accordance with local council regulations. Do not burn.

Dispose of membrane, primer and sealant residues and their containers in accordance with those products' Safety Data Sheets, the WHS Regulations, the relevant State or Territory EPA requirements and local council regulations. Never discharge to sewer, stormwater, soil or waterways.

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Quality Records

Record and retain the following as part of the project quality assurance records and as a condition of warranty eligibility:

- Batch numbers of all FORSPEC products used — membrane, primer, sealants and tapes. Batch numbers are printed on the container and provide full manufacturing traceability.
- Substrate type, preparation method and substrate moisture readings with the test method used.
- Primer system applied, date and time primed, and date and time overcoated.
- Ambient and substrate temperature and relative humidity at each stage of application.
- Gap filling carried out with ACTFLEX 75FC or ACTFLEX MS PRO, and the date cured.
- Confirmation that membrane bleed-through was achieved through the felt at every collar.
- Encapsulation method used at each penetration — wet-on-wet or delayed overcoat.
- Wet film thickness readings taken during each coat, and the areas they represent.
- Application dates, number of coats and actual coverage achieved per coat.
- Crack, junction and penetration details completed prior to the field membrane.
- Penetration register — every tap, outlet, pipe and service protrusion, with a collar recorded against each.
- Confirmation that each penetration was rigid and secured before the collar was installed.
- Photographic record of each embedded collar before the encapsulating coat was applied.
- Flood test result at each penetration specifically, and any rectification carried out and re-tested.
- Name and licence details of the applicator, and sign-off of each hold point.

Storage

Store flat in dry, shaded conditions in the original packaging, protected from direct sunlight, moisture and mechanical damage. The collar is not UV stable in storage or in service — keep collars packaged until required.

Shelf life is 24 months from the date of manufacture when stored as specified. Store away from food, drink and animal feedstuffs, and stock rotate on a first-in, first-out basis.

Safety Precautions and First Aid

ACTFLEX SUPERFLEX COLLAR — FORSPEC is classified per its current Safety Data Sheet. Read the Safety Data Sheet in full before use — it is available at www.forspec.com.au and governs in the event of any inconsistency with this document. The collar is an inert factory-manufactured thermoplastic elastomer component and presents no chemical hazard in its supplied form. The hazards in installation arise from the membranes, primers and sealants used with it.

Handling

Wear the personal protective equipment required by the membrane and primer systems in use — read and observe their Safety Data Sheets, including ventilation, skin protection and, for epoxy systems, sensitisation warnings. Wear gloves when handling wet membrane. Cutting or trimming the collar requires a sharp blade drawn away from the body and cut-resistant gloves. Working in wet areas and plant rooms may involve confined or poorly ventilated spaces — provide ventilation where solvent-based or epoxy products are used. Wash hands thoroughly before breaks and after finishing work.

First aid

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Safety Precautions and First Aid (continued)

- Eyes — rinse cautiously with water for several minutes, holding the eyelids apart. For membrane or primer contact, follow the first aid directions in that product's Safety Data Sheet and seek medical attention if irritation persists.
- Skin — wash the affected area thoroughly with soap and water. Do not use solvents on skin. For membrane, primer or sealant contact, follow the first aid directions in that product's Safety Data Sheet.
- Inhaled — where membrane or solvent vapour has been inhaled, remove the person to fresh air and keep at rest in a position comfortable for breathing. Seek medical attention if discomfort persists.
- Cuts — control bleeding, clean the wound and seek medical attention for any deep or contaminated cut.

POISONS INFORMATION CENTRE: 13 11 26 (Australia-wide, 24 hours)

Keep Out of Reach of Children

In an emergency call 000.

Warranty

Standard Product and Performance Warranty: Forspec Protective Coatings Pty Ltd as Trustee for Forspec Protective Coatings (ABN 11 204 033 631) warrants that ACTFLEX SUPERFLEX COLLAR — FORSPEC will be free from manufacturing defects and will not fail under normal usage for a period of ten (10) years from the date of purchase, when installed and used strictly in accordance with this Technical Data Sheet and Forspec's written instructions. This warranty covers the supply of the product only; it does not cover installation, application or workmanship. Remedies are limited, at Forspec's discretion, to replacement of the defective product (or defective portion) or a refund of the purchase price. The full terms, conditions and exclusions are set out in the Forspec Standard Product and Performance Warranty, available at www.forspec.com.au — key conditions include application by a suitably qualified and, where required by law, licensed applicator; use within shelf life; and installation as part of a Forspec approved system without non-approved third-party products.

Project and system warranties: extended project-specific warranties are available at the request of the applicator and must be applied for using the Forspec Warranty Request Form prior to commencement of works. Issue is subject to Forspec approval and is conditional on the use of the complete specified FORSPEC system, application in strict accordance with the current TDS by suitably qualified applicators, and completion of the project quality records described above. The warranty period and terms are as stated in the issued warranty certificate.

Claims: notify Forspec in writing within thirty (30) days of discovery of the alleged defect and within the warranty period, by post to 22/872 Canterbury Road, Roselands NSW 2196 or by email to info@forspec.com.au, including proof of purchase, installation details (date, location, installer), a description of the defect with supporting evidence, and your contact details. Forspec may inspect the site, perform testing and collect samples before determining a claim.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Data Sheet Currency

This Technical Data Sheet is valid for three (3) years from the issue date shown above, unless superseded earlier. It supersedes all previous versions. It is the responsibility of the customer and the applicator to confirm that this document and the corresponding Safety Data Sheet are the current versions, available at www.forspec.com.au.

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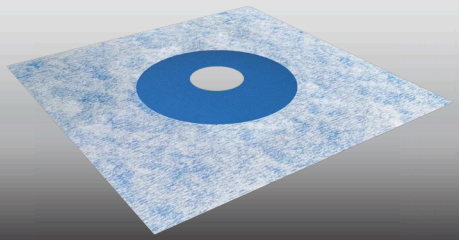
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