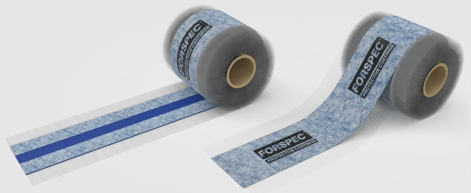
ACTFLEX MESH TAPE.



Technical Data Sheet | **Mesh-Reinforced Elastomeric Waterproofing Tape for Thick-Bodied Membrane Systems** | **Issue date: 25 August 2026**

Description

ACTFLEX MESH TAPE is a high-performance elastomeric joint tape built around a continuous elastomeric resin core flanked by high-porosity mesh wings, engineered specifically for thick-bodied and coarse-consistency waterproofing membranes — rubber-modified acrylics, cementitious membranes and pasty polyurethanes — where conventional tapes and fabrics cannot achieve resin penetration.

The open mesh geometry allows the membrane to filter completely through the wings and encapsulate the tape from both above and below, forming a mechanical lock to the substrate rather than relying on adhesion alone. The result is a detail with no hollow voids, no floating and no detachment, including on vertical and overhead work. The elastomeric centre remains permanently elastic and crack-bridging under thermal and structural movement, and the tape delivers high tensile strength and elongation in both axes. Preformed internal and external corner units complete the system.

Advantages

- Mesh wings engineered for high-viscosity and coarse-bodied membranes that cannot penetrate conventional fabric bands.
- Full membrane penetration through the mesh — the tape is mechanically locked to the substrate from above and below.
- No hollow voids and no detachment, including on vertical and overhead applications.
- Permanently elastic, flexible and crack-bridging elastomeric centre.
- High tensile strength and elongation in both the longitudinal and transverse axes.
- Water pressure resistance of 1.5 bar to EN 1928.
- Cold flexible to −30°C with no cracking, and serviceable to +90°C.
- Compatible with cement-based, acrylic, polyurethane, polyurea and bitumen-based membranes.
- Preformed internal and external corner units available for critical detailing.

Uses

- Floor-to-wall junctions in internal and external wet areas.
- Under-tile waterproofing systems.
- Expansion joints and construction joints within membrane systems.
- Precast concrete panel seams.
- Slab edge terminations.
- Planter boxes, balconies, swimming pools and water tanks.
- Structural crack reinforcement beneath membranes.

Compliance Status

ACTFLEX MESH TAPE is a detailing component and is not itself certified to a membrane standard. Compliance is established by the certified FORSPEC membrane system in which the tape is embedded. No accredited certificate is currently held on file for the tape properties below.

STANDARD / TEST	STATUS	REFERENCE
AS/NZS 4858 — wet area membranes	Not applicable — the tape is a system component, not a membrane	Compliance is established by the membrane system
EN ISO 527-3 — tensile properties	Manufacturer data	Forspec R&D *
EN 1928 — water pressure resistance	1.5 bar — manufacturer data	Forspec R&D *

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Compliance Status (continued)

STANDARD / TEST	STATUS	REFERENCE
SIA 280/3 — cold flexibility	No cracking at −30°C — manufacturer data	Forspec R&D *
ISO 868 — hardness	70 Shore A — manufacturer data	Forspec R&D *

Technical Data

Certified values are stated against their governing report. All other values are typical R&D characteristic values and are asterisked.

PROPERTY	VALUE	BASIS
Product type	Elastomeric resin core with high-porosity mesh wings	—
Thickness	0.52 mm	*
Standard widths	120/70 mm and 150/100 mm	—
Weight	38 g/m	*
Colour	RAL or Pantone as specified	—
Tensile strength (longitudinal)	76 MPa	EN ISO 527-3 *
Tensile strength (transverse)	30 MPa	EN ISO 527-3 *
Elongation at maximum load (longitudinal)	22%	EN ISO 527-3 *
Elongation at maximum load (transverse)	139%	EN ISO 527-3 *
Shore hardness	70 A	ISO 868 *
Water pressure resistance	1.5 bar	EN 1928 *
Cold flexibility	No cracking at −30°C	SIA 280/3 *
Service temperature	−30°C to +90°C	SIA V280/3+4 *
Minimum overlap	50 mm	—
Roll length	25 m	—
Shelf life	24 months, unopened, stored dry and shaded	—

The width designation states the total tape width and the width of the elastomeric centre — for example 120/70 mm is a 120 mm tape with a 70 mm centre and 25 mm of mesh wing on each side. Size the tape so that the elastomeric centre fully spans the joint or crack with mesh bearing on sound substrate on both sides.

* Typical R&D characteristic values, not for engineering design without written FORSPEC confirmation.

Coverage and Yield

MEASURE	BASIS
Linear demand	Measured junction length plus 50 mm per lap and 10% for detailing and wastage
Corner allowance	One preformed unit, or 300 mm of running tape, per internal or external corner

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Coverage and Yield (continued)

MEASURE	BASIS
Membrane demand at the detail	Base coat plus second coat over the full tape width — refer to the membrane TDS
Roll length and rolls per carton	25 m per roll; 8 rolls per carton

Take-offs must allow for laps, corner units and offcut wastage. Roll and carton quantities are Forspec R&D typicals — confirm against current packaging before ordering.

Limitations

- Not a stand-alone waterproofing product — the tape performs only as a reinforced detail within a complete FORSPEC waterproofing system.
- Never embed dry. The membrane must fully wet out the tape from beneath and be applied over it — a dry-laid tape will float, bridge and debond.
- Not to be left exposed. The tape must be overlaid with the approved membrane system.
- Cracks and static joints wider than 3 mm must be pre-filled with ACTFLEX 75FC or ACTFLEX MS PRO before the tape is installed.
- Not a substitute for a designed movement joint — dynamic structural joints require the joint detail nominated in the project design.
- Confirm compatibility between the tape and the specified membrane with a FORSPEC technical representative before use.
- Do not install over frosted, damp or contaminated substrates, or where condensation is present.
- Do not stretch the tape during installation — an installed tape under tension will pull out of the junction as the membrane cures.
- Engineered for thick-bodied and coarse-consistency membranes — for thin-film brush-grade membranes specify ACTFLEX FLEX TAPE instead.

Surface Preparation

Preparation governs the performance of the detail. Complete all preparation and allow all preparatory work to cure before installation begins.

- Substrates must be clean, dry, structurally sound and free of laitance, dust, oil, grease, paint, sealers, curing compounds and all other bond-inhibiting contaminants.
- Concrete surfaces must be smooth and free of surface ridges, sharp projections, fins and voids — any of these will bridge the tape and create a void beneath it.
- Junction zones must be smooth and continuous for a minimum of 200 mm in every direction from the corner, including the wall upturn.
- Renders and screeds must be fully cured, crack-free and solidly bonded. Cut out and reinstate any weak, hollow or drummy area before installation.
- Reinstate defects, voids and blowholes with a FORSPEC concrete repair system such as FORBUILD 100 or FORCRETE 100, finished flush and cured.
- Remove all loose fasteners, screws, nails and debris from wall and floor sheet surfaces.
- All building boards and sheet substrates must be installed and fastened in accordance with the sheet manufacturer's instructions and the applicable Australian Standard.
- Mechanically prepare dense, burnished or coated surfaces by grinding or light abrasion to expose sound substrate, then vacuum the area thoroughly.

Installation

- Confirm surface preparation is complete and that any required primer has been applied and is fully dry.
- Pre-fill cracks and static joints wider than 3 mm with ACTFLEX 75FC or ACTFLEX MS PRO and allow to cure.
- Apply a generous, continuous base coat of the specified FORSPEC membrane to the substrate at the junction and along the full length of the joint, wide enough to receive the full tape width plus margin on both sides.
- While the membrane is still wet, centre ACTFLEX MESH TAPE over the junction or crack so that the elastomeric centre spans the joint and the mesh wings lie flat on both planes.
- Press the tape into the wet membrane with a steel trowel or spatula so that the membrane fully saturates the mesh wings and anchors the tape from beneath. Work from the centre outwards to expel air, wrinkles and dry zones.

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Installation (continued)

- Allow the base coat to partially set, then apply the second coat of membrane over the entire tape length, fully embedding and encapsulating the tape.
- Overlap tape ends by a minimum of 50 mm, fully embedded in membrane at the lap.
- Inspect the installed detail for hollow zones, wrinkles, dry mesh or felt, and lifted edges. Cut out and re-detail any defective length before continuing.

Corner and Junction Detailing

- Internal corners: cut the tape at 45° and lap or mitre neatly, keeping the centre of the tape continuous and uninterrupted around the corner. Press both planes into sufficient membrane beneath.
- External corners: pre-form or cut the tape to the corner shape with continuous overlap, ensuring the bonding face contacts the substrate on both planes and is fully saturated.
- Factory-preformed internal and external corner units are available and are recommended for critical detailing; join preformed corners to the running tape with a minimum 50 mm overlap and full embedment.

Pre-Filling Cracks and Static Joints

- Cracks and static joints wider than 3 mm must be pre-filled before the tape is installed.
- Fill with ACTFLEX 75FC or ACTFLEX MS PRO, tooled flush with the substrate.
- Allow the filler to cure fully before the membrane base coat is applied.
- Confirm compatibility between the filler and the specified membrane system with a FORSPEC technical representative.

Drying, Curing and Testing Times

All times below are governed by the membrane system in which the tape is embedded, measured at 25°C and 50% RH. Refer to the Technical Data Sheet of the specified membrane for the controlling recoat and cure windows.

STAGE (AT 25°C, 50% RH)	TIME
Base coat — embedment window	While the membrane remains wet *
Base coat — partial set before second coat	Per the membrane Technical Data Sheet
Second coat — full encapsulation	Per the membrane recoat window
Flood testing	After full cure of the membrane system — refer to the membrane TDS
Tiling and covering	After full cure of the membrane system and a successful flood test

* Typical R&D characteristic values, not for engineering design without written FORSPEC confirmation.

Clean Up

Remove offcuts and release liner immediately and keep the work area clear. Tools require no solvent cleaning. Where uncured membrane has been applied over the tape, clean tools and equipment according to the membrane Technical Data Sheet while the product remains wet.

Container and Waste Disposal

Dispose of offcuts, release liner, cores and packaging as general construction waste in accordance with State and local requirements. Do not discharge membrane residues into drains, soil or waterways. Refer to Section 13 of the SDS of any membrane used with the tape.

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Quality Records

Record the batch numbers and roll identifiers of all ACTFLEX MESH TAPE used, tape width selected against joint width, substrate preparation and primer system, junction locations detailed, lap lengths, base coat and second coat membrane application dates, saturation and encapsulation confirmation, and inspection results, as part of the project quality assurance records.

Storage

Store rolls flat or upright in original packaging in a cool, dry, covered environment, protected from direct sunlight, heat and moisture, and clear of point loads. Shelf life: 24 months from the date of manufacture, unopened, when stored as specified.

Safety Precautions and First Aid

Refer to the current Safety Data Sheet before use. The product is supplied in a cured, non-reactive form and is not classified as hazardous in normal handling. The principal hazards in installation arise from the wet waterproofing membranes, primers and sealants used to embed it, and from cutting tools and heat guns. Wear protective gloves, eye protection and protective clothing when handling wet membranes. Use a sharp blade with a cutting board and cut away from the body. Where a heat gun is used, ensure ventilation, keep the tool clear of solvent vapour and combustible material, and allow heated surfaces to cool before handling. Do not eat, drink or smoke when handling; wash hands before breaks and after work.

First aid — Eyes: rinse cautiously with water for several minutes; remove contact lenses if easy to do; continue rinsing and seek medical attention if irritation persists. Skin: wash with soap and water; for membrane or primer contact follow the first aid directions in that product SDS. Inhaled: move to fresh air and keep comfortable. Swallowed: rinse mouth and seek medical advice. Burns from heat gun contact: cool under running water for 20 minutes and seek medical attention for anything beyond a minor burn. POISONS INFORMATION CENTRE: 13 11 26 (Australia-wide, 24 hours). In an emergency, dial 000. KEEP OUT OF REACH OF CHILDREN. Read the Safety Data Sheet (SDS) before use — available at www.forspec.com.au.

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 MESH TAPE 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.

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Data Sheet Currency

This Technical Data Sheet (TDS) and the corresponding Safety Data Sheet (SDS) are subject to revision as necessary to ensure compliance with relevant Australian Standards and to incorporate technological advancement. Read the most current versions before use, as application and performance data may be updated. For the latest technical information, contact Forspec Protective Coatings on (02) 8021 3517 or info@forspec.com.au. The information provided is representative and does not serve as a comprehensive specification. For specific projects, consult directly with Forspec Protective Coatings for tailored specifications. This data sheet was issued on 25/08/2026 and is valid for three years from the date of issue unless superseded by a later revision — always confirm the current version at www.forspec.com.au before use.

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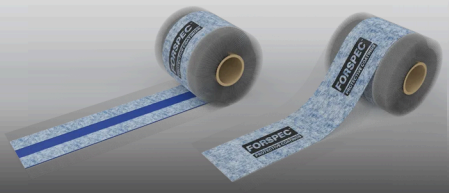
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