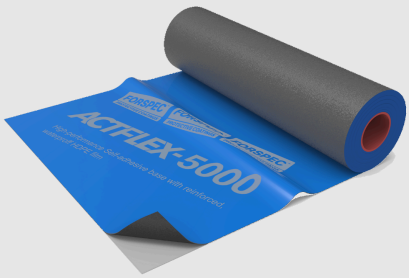
ACTFLEX 5000.



Technical Data Sheet | **Self-Adhesive Polymer Resin Sheet Membrane with Cross-Laminated HDPE Reinforcement** | **Issue date: 9 November 2026**

Description

ACTFLEX 5000 is a self-adhesive sheet waterproofing membrane built on a polymer resin base and reinforced with cross-laminated high-density polyethylene film. The non-asphalt chemistry is what sets it apart from traditional bituminous sheet: it develops full contact adhesion against concrete and forms a mechanical lock with the structure rather than relying on a tacky bitumen film, and it carries none of the asphalt odour, staining or hot-work risk.

The cross-laminated HDPE carrier delivers dimensional stability and puncture resistance in both axes, while the factory self-adhesive selvedge edge produces a clean, watertight overlap without site adhesives or torching. It installs in both wet and dry conditions, is root resistant for planter and landscaped applications, and complies with AS 4654.1 as a Class III (high extensibility) membrane, tested by a NATA-accredited laboratory. Ideal for non-exposed external wet areas — basement walls, planter boxes, retaining walls, external lift shaft walls and protected decks — and for any project where open flame is prohibited.

Advantages

- Non-asphalt polymer resin base — no bitumen odour, staining or hot-work risk.
- Self-adhesive throughout, with a factory self-adhesive selvedge edge for a clean watertight overlap.
- Cross-laminated HDPE film reinforcement delivers dimensional stability and puncture resistance in both axes.
- Forms a strong mechanical lock with structural concrete for full-contact adhesion.
- Installs in both wet and dry conditions, widening the weather window on site.
- No open flame required — approved for sites where hot work is prohibited.
- Root resistant, suited to planter boxes and landscaped areas.
- Complies with AS 4654.1 as a Class III membrane (374% elongation) and passed its detergent immersion, water immersion and heat ageing tests.
- Peel-and-stick installation — fast, clean and low-skill-risk compared with torch-applied systems.

Uses

- Basement walls and below-ground structures.
- Planter boxes and landscaped areas requiring root resistance.
- Retaining walls and foundation walls.
- External lift shaft walls.
- Protected decks, including under pedestal pavers, with no membrane left exposed.
- External wet areas, non-exposed.
- Underground and external works where open flame is prohibited.

Compliance Status

ACTFLEX 5000 has been tested by XTecGen, a NATA-accredited laboratory (Accreditation No. 20678), and complies with AS 4654.1-2012 as a fully bonded, non-exposed sheet membrane, Class III (high extensibility). Test Report 373 was issued on 19/02/2025 and is valid to 19/02/2028.

STANDARD / TEST	STATUS	REFERENCE
AS 4654.1-2012 - external above-ground membranes	Complies - fully bonded, non-exposed sheet membrane, Class III	XTecGen NATA Report 373, valid to 19/02/2028

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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	Self-adhesive polymer resin sheet membrane with cross-laminated HDPE film reinforcement	—
Carrier film	Cross-laminated high-density polyethylene	—
Adhesive	Non-asphalt self-adhesive polymer resin	—
Edge detail	Factory self-adhesive selvedge	—
Application condition	Wet or dry substrates	—
Minimum overlap	75 mm side and end laps *	*
Tensile strength	3.19 MPa (AS 1145.3)	XTecGen Report 373
Elongation at break	374% - Class III (AS 1145.3)	XTecGen Report 373
Cyclic movement	PASS - 50 cycles, no rupture, crazing or tears (AS 4654.1 Appendix B)	XTecGen Report 373
Durability - water immersion	PASS - 254% elongation at break after 56 days (AS 4654.1 Appendix A)	XTecGen Report 373
Durability - detergent immersion	PASS - 370% elongation at break after 56 days (AS 4654.1 Appendix A)	XTecGen Report 373
Durability - heat ageing	PASS - 522% elongation at break (AS 4654.1 Appendix A)	XTecGen Report 373
Bond strength	13.19 N peel force to concrete primed with ACTFLEX EP 250 (ASTM C794)	XTecGen Report 373
Field seam strength	71.67 N/25 mm (AMTM005)	XTecGen Report 373
Dimensional stability	No change observed (ASTM D6207)	XTecGen Report 373
Temperature resistance	-15°C to +85°C exposure, then water vapour transmission 0.13 g/m²/24 h (AMTM004)	XTecGen Report 373
Water vapour transmission	0.18 g/m²/24 h (ASTM E96)	XTecGen Report 373
Puncture resistance	≥ 200 N *	*
Nail shank tear strength	≥ 300 N *	*
Root resistance	Resistant — suitable for planter and landscaped applications *	*
Application temperature	+5°C to +35°C *	*
Roll dimensions	To current pack schedule *	*
Shelf life	24 months, unopened, stored dry and shaded *	*

ACTFLEX 5000 is the general-purpose self-adhesive sheet membrane. Where a bonded topping slab is to be poured directly onto the membrane and chemical fusion to the topping is required, specify ACTFLEX 5000S.

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

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Coverage and Yield

MEASURE	VALUE	BASIS
Nett coverage per roll	Roll area less lap allowance *	Deduct 75 mm on every side and end lap
Lap allowance	Approx. 10% of gross roll area *	75 mm laps on a typical bay layout
Wastage allowance	Approx. 10% *	Cutting, corners, penetrations and terminations
Take-off basis	Measured area plus upturns, plus 20% for laps and wastage *	Standard sheet membrane take-off
Detail strip allowance	300 mm strip at every internal corner and penetration *	R&D typical

Quantity take-offs must allow for floor upturns, wall sheet height, detail strips, penetration collars and approximately 10% wastage in addition to the lap allowance. * Typical R&D characteristic values, not for engineering design without written FORSPEC confirmation.

Limitations

- Non-exposed applications only — ACTFLEX 5000 must be covered by the specified protection, backfill, topping or finish and must not be left permanently exposed to UV.
- Not for use as an exposed trafficable surface.
- Not a substitute for structural crack repair — active and structural cracks must be treated before the membrane is laid.
- Do not install over frosted substrates, standing water, or substrates with sharp projections or protruding fixings.
- Do not install below 5°C without confirming adhesion on a trial area.
- Laps must be rolled and inspected — an unrolled lap is not a sealed lap.
- Terminations must be mechanically fixed and sealed with the specified FORSPEC termination detail.
- Where a bonded topping slab requires chemical fusion to the membrane surface, specify ACTFLEX 5000S instead.
- Confirm compatibility with a FORSPEC technical representative before use with any third-party primer, adhesive or membrane.

Surface Preparation

- Confirm the substrate is structurally sound, clean, dry and free of laitance, dust, oil, grease, curing compounds, release agents and all bond-inhibiting contaminants.
- Concrete must be fully cured — a minimum of 28 days — and free of standing water and frost.
- Remove all high points, fins, sharp projections and protruding fixings that could puncture the membrane, and grind back honeycombing.
- Reinstate blowholes, voids, spalls and defects with a FORSPEC concrete repair system such as FORBUILD 100 or FORCRETE 100, finished flush and cured.
- Form all internal corners and floor-to-wall junctions as a smooth cove or fillet before the membrane is laid — a sharp internal angle will bridge and tent.
- Confirm the substrate falls and drainage are set out and correct before covering.
- Vacuum the area thoroughly immediately before installation.

Application and Film Build

- Confirm substrate preparation is complete and that ACTFLEX EP 250 primer, the primer used for AS 4654.1 testing, has been applied and is dry.
- Set out the sheet layout so that laps run with the fall and shed water over, never against, the lap.
- Position and align the sheet dry, then peel the release liner progressively and bed the membrane from one edge, working it into full contact as it lands to exclude air. Never drop the sheet flat.
- Consolidate the full bonded area with a weighted or hand pressure roller.
- Overlap all side and end laps by a minimum of 75 mm onto the factory self-adhesive selvedge, and roller every lap firmly along its full length.
- Detail internal corners, floor-to-wall junctions and penetrations with a separate detail strip before the main sheet is laid, and roller it into both planes.

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Application and Film Build (continued)

- Terminate the membrane into a mechanically fixed and sealed reglet or termination bar per the FORSPEC detail.
- Inspect every lap, corner and penetration for lifting, fishmouths, wrinkles and trapped air, and cut out and re-detail any defect before covering.
- Protect and cover the membrane promptly — do not leave it exposed beyond the period agreed with FORSPEC.

Drying, Curing and Testing Times

All times below are measured at 25°C and 50% RH. Low temperature, high humidity, poor ventilation and substrate porosity extend every stage — verify the primer is fully dry on site before overcoating.

STAGE (AT 25°C, 50% RH)	TIME
Adhesion development	Immediate on pressure rolling — no cure period *
Lap inspection and probe test	Immediately after rolling, before covering
Ready for protection board or backfill	Immediately after inspection *
Ready for topping, screed or tiling	Immediately after inspection *
Maximum exposure before covering	Cover promptly — not UV stable *

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

Clean Up

Remove offcuts, release liner and packaging immediately and keep the work area clear. Tools require no solvent cleaning. Where a primer, adhesive or liquid membrane has been used alongside the sheet, clean tools according to that product Technical Data Sheet while the material 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 primer or membrane residues into drains, soil or waterways. Refer to Section 13 of the SDS of any primer or liquid product used with the sheet.

Quality Records

Record the batch numbers and roll identifiers of all ACTFLEX 5000 used, substrate preparation method and primer system where applied, sheet layout and lap direction, lap widths achieved, pressure-rolling confirmation, corner and penetration detailing, termination method, lap probe test results, the date the membrane was covered, and inspection results, as part of the project quality assurance records.

Storage

Store rolls upright on their cores in original packaging in a cool, dry, covered environment, protected from direct sunlight, heat, moisture and point loading. Do not stack rolls beyond the manufacturer stacking limit. 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 cutting tools, from working at height and in confined below-ground spaces, and from the primers, adhesives and membranes used alongside it. Wear protective gloves, eye protection and

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Safety Precautions and First Aid (continued)

protective clothing. Use a sharp blade with a cutting board and cut away from the body. Where work is below ground or in a confined space, apply the site confined-space entry procedure — test the atmosphere, provide mechanical ventilation and maintain a standby observer. 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 primer or membrane 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. Cuts from cutting tools: clean the wound, apply a dressing and seek medical attention where the wound is deep or contaminated. 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 5000 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 (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 09/11/2026 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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