ACTFLEX 101 UV.



Technical Data Sheet | **UV-Stable Co-Polymer Class III Waterproofing Membrane** | **Issue date: 12 August 2026**

Description

ACTFLEX 101 UV is a high-performance, UV-stable elastomeric acrylic co-polymer Class III waterproofing membrane engineered for permanently exposed applications — rooftops, facades, parapets, box gutters and podiums — where long-term weathering and UV resistance govern performance. It maintains flexibility without embrittlement through service, does not re-emulsify after curing, and is tintable to a range of pastel shades for architectural finishes. Its high-build body applies by roller, brush or spray on horizontal and vertical surfaces, and supports pedestal paver systems over the cured membrane. Independently tested to AS 4654.1 (Class III) with NATA-certified VOC content of 45 g/L, ACTFLEX 101 UV retains over 300% elongation after UV exposure testing.

Advantages

- UV-tested performance — retains 317% elongation and 2.73 MPa tensile strength after UV exposure testing to AS 4654.1 Appendix A.
- Class III — highly flexible, tough and durable, with 434% control elongation at break (AS 1145.3).
- Maintains flexibility through service life — does not embrittle with age and does not re-emulsify after curing.
- Tintable to pastel shades (maximum 1% acrylic tint) and paintable with conventional acrylic paints.
- Low VOC — 45 g/L certified by NATA-accredited testing (limit 250 g/L), meeting the GBCA Green Star credit requirements for waterproofing membranes.
- High-build body — controlled film build on horizontal and vertical surfaces.
- Supports pedestal paver systems over the cured membrane with the specified protection.
- Single-component — roller, brush or spray application.
- Suitable for use in confined spaces — water-based, low odour.

Uses

- Exposed rooftops and protected or exposed podium slabs.
- Wall facades and parapet walls — exposed architectural waterproofing.
- Box gutters and exposed horizontal drainage surfaces.
- Beneath pedestal-supported paver systems over the cured membrane.
- External above-ground waterproofing in accordance with AS 4654.1 and AS 4654.2.

Compliance Status

STANDARD / TEST	RESULT	REPORT / CERTIFICATE
AS 4654.1-2012 — waterproofing membranes for external above-ground use	Class III	XTecGen Report 254-1 (summary 254-2)
Cyclic movement (AS 4654.1 Appendix B)	Pass — failure not observed	XTecGen Report 254-1
Abrasion resistance (AS 1580.403.2, per AS 4654.1 cl. 2.3)	0.071 mm — meets non-trafficable requirement; 0.156 mm — meets pedestrian-traffic-only requirement	XTecGen Report 254-1

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Compliance Status (continued)

STANDARD / TEST	RESULT	REPORT / CERTIFICATE
VOC content (ASTM D3960 / ASTM D2369)	45 g/L — meets GBCA Green Star Design & As Built V1.3-13.1.1B and Interiors V1.3-12.1.1B (limit 250 g/L)	FORAY Laboratories (NATA accreditation 1231), Certificate P23010038
Hazard classification	Hazardous chemical; non-dangerous goods	Current SDS (Chemwatch)

Testing by XTec Gen Pty Ltd, accredited for compliance with ISO/IEC 17025. External systems are designed and installed in accordance with AS 4654.2. Reports and certificates are available on request from Forspec Protective Coatings.

Technical Data

PROPERTY	VALUE	BASIS
Form	Single-component viscous liquid	—
Colour	Grey or white; tintable to pastel shades (max 1% acrylic tint)	—
Packaging	15 L (20 kg) pail	—
Solids content	65%	—
Membrane classification	Class III	—
Control elongation at break	434%	AS 1145.3 — Report 254-1
Control tensile strength	4.26 MPa	AS 1145.3 — Report 254-1
Bond strength	29.02 N	ASTM C794 — Report 254-1
Water vapour transmission	3.07 g/m²/24 h	ASTM E96 — Report 254-1
VOC content	45 g/L	ASTM D3960 / D2369 — Certificate P23010038
Tear resistance	8–12 N/mm²	*
Shore hardness	60 or greater	*
Fatigue cracking	No fatigue cracking — pass	*
Tack-free time (at 25°C, 50% RH)	6 hours	—
Recoat time (at 25°C, 50% RH)	Minimum 6 hours — maximum 48 hours	—
Light foot traffic (at 25°C, 50% RH)	From 24 hours	—
Rain and water exposure	Protect for 72 hours after the final coat	—
Full cure (at 25°C, 50% RH)	14 days after the final coat	—
Application temperature	10–26°C (ambient and substrate)	—
Shelf life	12 months, unopened, stored as specified	—

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Technical Data (continued)

AS 4654.1 durability test results — XTecGen Report 254-1

CONDITION	ELONGATION AT BREAK	TENSILE STRENGTH	ASSESSMENT
Control	434%	4.26 MPa	Class III
Water immersion	596%	1.52 MPa	Pass
Detergent immersion	706%	2.83 MPa	Pass
Heat ageing	338%	3.51 MPa	Pass
Ultraviolet exposure	317%	2.73 MPa	Pass

Values without an asterisk are accredited test results from the cited reports and certificates. * Typical Forspec R&D characteristic values on standard production material at 25°C and 50% relative humidity — not to be relied upon for engineering design without written confirmation from FORSPEC Technical Services.

Consumption

Per coat at 0.6 mm DFT: approximately 0.92 L/m². Basis: at 65% solids, 0.6 mm dry film requires 0.6 ÷ 0.65 = 0.92 mm wet film ≡ 0.92 L/m². Two-coat 1.2 mm system: approximately 1.85 L/m² total. Two-coat 0.8 mm wall system (0.4 mm DFT per coat): approximately 0.62 L/m² per coat, 1.23 L/m² total.

Coverage and Yield

SYSTEM	TOTAL DFT	COVERAGE PER 15 L PAIL
Roofs, gutters and exposed horizontal surfaces	1.2 mm (2 coats)	Theoretical 9–10 m²; practical 7–9 m²
External exposed wall applications	0.8 mm (2 coats)	Theoretical 13–15 m²; practical 11–13 m²

Theoretical yield is the full pail applied at the specified film build with no losses. Practical yield allows for substrate porosity, surface profile, detailing, roller loading and wastage, and is the figure to use for ordering. The specified total DFT controls acceptance in every case.

Limitations

- Not compatible with all silicone-based and bituminous surfaces and products — confirm compatibility before application.
- Not for constantly submerged applications such as swimming pools and ponds, and not suitable for chlorine environments.
- Not a vapour barrier — not designed to withstand negative-side hydrostatic pressure.
- Apply only to dry substrates free from dampness; do not apply if rain threatens, and protect from rain and water for 72 hours after the final coat.
- Maintenance foot traffic only — not a trafficable wearing surface; light foot traffic from 24 hours.
- Tinting may affect solar and UV reflective properties — never exceed 1% acrylic tint.
- Movement joints may exceed the membrane's movement capability — detail with the approved flexible joint and bond-breaker method; never bridge active joints with continuous membrane.
- Apply only between 10–26°C (ambient and substrate).
- Do not dilute unless expressly authorised in writing by an authorised FORSPEC representative.
- Complete a trial area where substrate, adhesion, primer or finish compatibility is uncertain.

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Surface Preparation

- Substrates must be installed per the manufacturer's instructions and the applicable Australian Standards, structurally sound and dimensionally stable. Application constitutes acceptance of the substrate.
- Surfaces must be clean, dry, smooth and free of oils, grease, wax, mould, dust, curing compounds, release agents, coatings, adhesives, loose particles, rust, paint and efflorescence.
- Concrete: cured a minimum of 28 days with a wood-trowel finish; earlier application requires two coats of ACTFLEX EP250. Renders and screeds: cured a minimum of 7 days, wood-trowel finish.
- Repairs: reinstate damaged concrete with the FORSPEC concrete repair system such as FORBUILD 100 or FORCRETE 100; structural and spalling repairs per the FORSPEC epoxy crack repair range. Fill blowholes and imperfections with a high-strength, non-shrink mortar and allow to cure.
- Remove high points and protrusions that could pierce the membrane; all surfaces solid, never crumbly.
- Approved substrates: wet-area-grade fibre cement sheeting (walls minimum 6 mm; compressed sheet minimum 15 mm), wet-area-grade plasterboard (minimum 10 mm), concrete, cured renders and screeds, brickwork, blockwork and masonry, and primed timber, metal and PVC surfaces. Never particleboard, platform or yellow-tongue flooring, or chipboard — replace with wet-area-grade compressed fibre cement.
- Falls — external areas: minimum 1:100 to drainage outlets, per the project design and AS 4654.2.

Priming

- ACTFLEX EP250 — the primer for ACTFLEX 101 UV on porous and cementitious substrates: one coat on sound, dry substrates; two coats where specified, where concrete is under 28 days old, or for moisture control.
- Moisture control: where substrate moisture exceeds 80% relative humidity (ASTM F2170) or 15 g/m^2/24 h (ASTM F1869) — a digital moisture meter reading of 5% or greater typically indicates high moisture — apply a minimum of two coats of ACTFLEX EP250 before waterproofing.
- ACTFLEX SUPERPRIME 008 — the primer for dense, smooth and non-porous substrates including metal and PVC, following compatibility confirmation.
- Prepare, mix and apply the selected primer strictly per its current TDS; achieve complete, even coverage with no pinholes or missed areas, and allow it to reach the condition its TDS requires before membrane application. Lightly abrade or clean where necessary.

Crack Treatment

Clean the crack zone of all loose debris, contaminants and coatings, and allow any pre-treated cracks to fully cure before proceeding. Static cracks under 2 mm: prime 200 mm across and along the crack, centre ACTFLEX SA TAPE over the prepared crack once the primer has dried, bed with a brass detail roller and small hand roller free of bubbles and wrinkles, overlap tape sections a minimum of 50 mm, and encapsulate with two coats of ACTFLEX 101 UV. Static cracks 2 mm and over: grind to a minimum 6 mm x 6 mm reglet, fill with ACTFLEX MS PRO tooled flush, cover with a bond-breaker tape once cured sufficiently, and apply two coats of ACTFLEX 101 UV. Cracks requiring structural shear strength: rectify with the FORSPEC epoxy crack repair range — PROBOND 1100, CRACK PRO 1200PS or CRACKLOCK E400L — per their TDS. Active cracks and movement joints are never bridged with continuous membrane.

Detailing — Junctions, Fillets and Penetrations

- **Method 1 — Reinforcement tape detail**
  With the primer fully cured and surfaces clean, dry and free of dust: at floor joints, place ACTFLEX SA TAPE centrally over the joint (release paper removed) and roll firmly; where a non-self-adhesive FORSPEC reinforcement tape is specified for the detail, apply a coat of ACTFLEX 101 UV and embed the tape into the wet coat free of bubbles and wrinkles. At wall/floor junctions, position the tape with a minimum of 50 mm coverage onto each plane. At penetrations, wrap the tape fully around the pipe or drain with full adhesion. Overlap all tape ends a minimum of 50 mm, seal all edges, and encapsulate every detail within the membrane coats. Bond-breaking methods comply with the Australian waterproofing standards.
- **Method 2 — ACTFLEX MS PRO fillet**
  Apply a continuous bead of ACTFLEX MS PRO at drains, penetrations, floor/wall and wall/wall junctions and joints before membrane application — a 15 mm x 15 mm fillet for external applications — and tool smooth. Where additional movement reinforcement is required, embed the specified FORSPEC reinforcement tape centrally into the wet first coat of ACTFLEX 101 UV over the cured fillet, free of creases and air pockets, allow to dry, and encapsulate fully with the second coat before coating the remaining surfaces.

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Mixing

- If skinning has occurred in the pail, cut and remove the skin without incorporating it.
- Mix thoroughly before use with an electric drill and low-speed mixer attachment until uniform.
- Avoid high-speed mixing and air entrainment. Do not dilute.

Application and Film Build

Membrane coats

Apply a generous, even first coat over the full area by medium-nap roller (8–12 mm pile), long-bristle brush or airless spray, at a wet film thickness of 0.92 mm to achieve 0.6 mm DFT (roofs and horizontals) or 0.62 mm WFT for 0.4 mm DFT (walls). Allow to dry — typically 4–6 hours at 25°C and 50% RH — then apply the second coat at the same build, at approximately right angles to the first. Recoat window: minimum 6 hours, maximum 48 hours (at 25°C, 50% RH) — where exceeded, contact FORSPEC Technical Services for the inter-coat preparation. Checks: WFT verified per coat with a wet film gauge; no pinholes, misses or ponded material; details fully encapsulated; total DFT achieved — the specified DFT controls acceptance.

Application rates

APPLICATION	TOTAL DFT	COATS	DFT PER COAT	RECOAT (AT 25°C, 50% RH)	FULL CURE (AT 25°C, 50% RH)
External exposed walls	Minimum 0.8 mm	Minimum 2	Approx. 0.4 mm	Min 6 hours — max 48 hours	14 days after final coat
Roofs, gutters and exposed horizontal surfaces	Minimum 1.2 mm	Minimum 2	Approx. 0.6 mm	Min 6 hours — max 48 hours	14 days after final coat

Conditions and protection

Apply only when ambient and substrate temperatures are between 10°C and 26°C and no rain threatens. Protect the membrane from rain, standing water and immersion for 72 hours after the final coat, and from contamination and construction damage until covered or handed over. Light foot traffic from 24 hours; maintenance foot traffic only after full cure — 14 days at 25°C and 50% RH.

Film build for the 1.2 mm system (roofs, gutters and exposed horizontal surfaces). Check wet film with a gauge during application of every coat.

PARAMETER	COAT 1	COAT 2	TOTAL SYSTEM
Wet film thickness (WFT)	0.92 mm	0.92 mm	1.84 mm
Dry film thickness (DFT)	0.6 mm	0.6 mm	1.2 mm minimum
Consumption	0.92 L/m²	0.92 L/m²	Approx. 1.84 L/m²
Recoat window (at 25°C, 50% RH)	Minimum 6 hours — maximum 48 hours	—	—

External exposed wall systems are built at 0.8 mm total DFT — approximately 0.61 mm WFT per coat over two coats.* Refer to the application rates table above.

Drying, Curing and Testing Times

All times below are measured at 25°C and 50% RH and run from completion of the stated coat. Program each stage as a hold point — no stage may commence before the preceding stage is complete.

STAGE (AT 25°C, 50% RH, 1.2 MM DFT)	TIME
Tack-free	6 hours
Recoat — minimum	6 hours
Recoat — maximum	48 hours

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Drying, Curing and Testing Times (continued)

STAGE (AT 25°C, 50% RH, 1.2 MM DFT)	TIME
Light foot traffic	From 24 hours after the final coat
Rain and water protection	Protect for 72 hours after the final coat
Full cure	14 days after the final coat
Pedestal paver installation	After full cure and inspection *

Maintenance foot traffic only — ACTFLEX 101 UV is not a trafficable wearing surface. * Typical R&D characteristic values, not for engineering design without written FORSPEC confirmation.

Overcoating and Repairs

Clean the existing ACTFLEX 101 UV with mild detergent, rinse thoroughly and allow to dry completely. Extend the primer and new membrane a minimum of 100 mm over the existing membrane at every repair or overcoat junction. Existing membrane sound and well adhered: prime with one coat of ACTFLEX EP250. Existing membrane delaminating: remove all delaminated material back to a firmly adhered edge, then apply two coats of ACTFLEX EP250. In both cases, reinstate with three coats of ACTFLEX 101 UV to the specified total DFT.

Pedestal Paver Systems

Once fully cured, ACTFLEX 101 UV provides a durable, stable surface for pedestal-supported paver systems, installed per the pedestal manufacturer's instructions and the approved project design. Place rubber matting or approved load-spreading pads beneath every pedestal base to protect the membrane and extend its service life — never place or drag pedestal bases directly on the unprotected membrane.

Clean Up

Remove excess uncured product immediately and clean tools and equipment with water while the product remains wet. Cured ACTFLEX 101 UV can only be removed mechanically. Do not discharge wash water or uncured product into drains, soil or waterways — allow washings to settle, decant, and dispose of residues in accordance with the relevant State or Territory environment protection legislation.

Container and Waste Disposal

Allow residues to fully cure before disposal as construction waste. Uncured product and wash water are never discharged to drains, soil or waterways. Empty pails are disposed of or recycled in accordance with local council requirements. Refer to Section 13 of the SDS for detailed disposal requirements.

Quality Records

Record the batch numbers of all ACTFLEX 101 UV, primers, sealants and tapes used, tint additions (tinting affects solar reflectance and is limited to 1%), substrate moisture readings, application dates and conditions, wet and dry film thickness measurements per coat, and detail inspections, as part of the project quality assurance records. The specified total DFT is the acceptance criterion and must be verifiable from the records.

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Storage

Store in original, unopened containers in cool, dry conditions at 10–22°C, protected from moisture, frost and direct sunlight. Once opened, use the full contents where practical — the product is sensitive to airborne moisture. Shelf life: 12 months from the date of manufacture when stored as specified.

Safety Precautions and First Aid

ACTFLEX 101 UV is classified per its current Safety Data Sheet; it may cause skin and eye irritation. Use in well-ventilated areas, avoid breathing mist or spray, and wear chemical-resistant gloves, protective clothing, safety footwear and protective eyewear, with respiratory protection where the SDS and workplace risk assessment require. Prevent release to drains, soil and waterways. Change soiled clothing immediately and wash hands before breaks and after work.

First aid — Eyes: rinse immediately with plenty of water for at least 15 minutes and seek medical attention. Skin: wash with soap and water; remove contaminated clothing. Inhaled: move to fresh air; seek medical attention if discomfort persists or breathing difficulty occurs. Swallowed: do not induce vomiting; seek medical advice. 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 101 UV 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 12/08/2026 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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