ACTFLEX 901 BUV.



Technical Data Sheet | One-Component Water-Based Modified Bitumen Emulsion Waterproofing Membrane — UV Exposed and Trafficable | **Issue date: 3 September 2026**

Description

ACTFLEX 901 BUV is a one-component, water-based waterproofing membrane built on an exposure-grade emulsion and modified emulsified bitumen system, reinforced with selected fillers and performance additives. It cures to a tough, rough-textured film that stays exposed — no screed, no tiles, no protection layer — and walks under foot without picking up, marking or going tacky in summer heat. That combination is what sets it apart: most bitumen coatings must be buried, while ACTFLEX 901 BUV is formulated for permanent outdoor exposure, holding its integrity through 720 hours of accelerated weathering without cracking, blistering, delamination or pinholing, and resisting acid, alkali and long-term ageing. It stays flexible enough to bridge substrate movement and shrinkage cracking, holds a bond of 0.5 MPa or better to prepared concrete, and resists flow at 140°C, so it will not slump on a sun-loaded roof or a sloped gutter line. Supplied ready to use and applied by brush or roller straight from the pail, it waterproofs new work, refurbishes tired asphalt coatings and bituminous sheet membranes without stripping them out, and dresses the terminations, upstands and penetrations of bituminous sheet systems where a liquid detail is the only practical way to close the junction.

Advantages

- Fully exposed — no screed, tiles or protection layer required.
- Trafficable — rough, non-tacky cured surface with wear resistance and anti-slip texture.
- Weathering resistant — 720 hours accelerated exposure with no cracking, blistering, delamination or pinholing.
- Acid and alkali resistant, with long-term ageing resistance.
- High heat resistance — no flow, slip or drip at 140°C.
- Flexible — accommodates substrate deformation and shrinkage cracking, with elongation of 100% or greater.
- Bonds to prepared concrete at 0.5 MPa or better.
- Water impermeable at 0.1 MPa sustained for 30 minutes.
- One component — ready to use straight from the pail, no mixing ratio and no induction time.
- Water-based — non-flammable, non-explosive and free of solvent odour.
- Refurbishes existing asphalt coatings and bituminous sheet membranes without removal.

Uses

- Exposed concrete roofs and roof slabs.
- Trafficable terraces and walkable exposed decks.
- Sloped roofs and eaves gutter lines.
- Refurbishment and repair of existing asphalt waterproof coatings.
- Refurbishment and repair of existing bituminous sheet waterproofing membranes.
- Localised patch repair and re-coating of aged bituminous systems ahead of full replacement.
- Termination and detailing membrane for the FORZAFLEX sheet membrane range — laps, perimeter terminations, upstands, penetrations and outlets.
- Sealing and dressing of mechanically fastened and ballasted FORZAFLEX sheet edges.

Compliance Status

No accredited third-party test report to an Australian Standard is presently held for ACTFLEX 901 BUV. The performance values in this document are manufacturer characteristic values determined under laboratory conditions and are asterisked accordingly. Verification testing to AS 4654.1 has been programmed.

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Compliance Status (continued)

Where a project requires a certified membrane for external above-ground waterproofing, compliance must be established against AS 4654.1 and the system designed and installed in accordance with AS 4654.2. Confirm the compliance pathway with FORSPEC Technical Services before specifying ACTFLEX 901 BUV on a project where certification is a condition of approval.

Technical Data

PROPERTY	VALUE	BASIS
Form	One-component water-based liquid, ready to use	—
Colour	Grey-brown	—
Packaging	18 kg pail	—
Solids content	70% minimum	*
Elongation at break — untreated	100% minimum	*
Elongation at break — after acid, alkali or heat conditioning	80% minimum	*
Adhesion to prepared concrete	0.5 MPa minimum	*
Water impermeability	Impermeable at 0.1 MPa sustained for 30 minutes	*
Heat resistance	No flow, slip or drip at 140°C ± 2°C	*
Low-temperature flexibility — untreated	No cracking at −5°C	*
Low-temperature flexibility — after conditioning	No cracking at 0°C	*
Artificial weathering (720 hours)	No cracking, delamination, blistering, adhesion failure or pinholing	*
Total dry film thickness	1.5 mm over two coats	—
Application temperature	5–35°C (ambient and substrate)	—
Flammability	Non-flammable and non-explosive	—
Storage temperature	5–35°C	—
Shelf life	12 months, unopened, stored as specified	—

* Manufacturer characteristic values determined under laboratory conditions, pending accredited verification testing to Australian Standards — not for engineering design without written confirmation from FORSPEC Technical Services.

Limitations

- Bitumen-based. Not compatible with the FORSPEC polyurethane range — ACTFLEX 901 BUV must never be overcoated with, applied over, or detailed using solvent-based or moisture-cured polyurethane products, including ACTFLEX 929 SL, ACTFLEX 929 HV, ACTFLEX 75FC and ACTFLEX MS PRO. Corner junctions and detailing are carried out with FORSPEC bandage systems only.
- Dilution with water or any thinner is strictly prohibited. Dilution destroys film formation and voids all performance claims and warranty.
- Not for permanent immersion. Not for tanks, pools, ponds or water-retaining structures.

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Limitations (continued)

- Not for negative-side hydrostatic pressure.
- Not for application over standing water, or over substrates that are sanding, powdering or friable.
- Do not apply in windy, rainy, snowy or dusty conditions, and stop work immediately if rain begins — protect completed areas until the film has formed.
- Not recommended in extremely humid or poorly ventilated conditions, where film formation is compromised.
- Apply only between 5°C and 35°C ambient and substrate temperature.
- Grey-brown finish absorbs solar heat. Where surface temperature is a design consideration, assess the effect on the substrate and on comfort underfoot before specifying.
- Trafficable for pedestrian use only. Not for vehicular traffic, wheeled loads, point loading or machinery.
- No slip resistance classification has been established. Where a slip rating is required by the project or by AS 4586, this must be confirmed before specifying.
- Not for use beneath screeds, tiles or bonded finishes — this is an exposed system.

Approved Substrates

SUBSTRATE	REQUIREMENT
Concrete	Cured minimum 28 days; sound, clean, dry; wood-float or steel-trowel finish; free of laitance
Cement render and screed	Cured minimum 7 days; sound and non-friable
Existing asphalt waterproof coatings	Sound, well adhered, cleaned; loose and delaminated material removed
Existing bituminous sheet membranes	Sound, well adhered, cleaned; blisters cut and reinstated; laps sound
FORZAFLEX sheet membranes	Installed in accordance with the FORZAFLEX TDS; surface clean, dry and free of talc, dust and release agents

Not approved: substrates that are damp, ponding, sanding, powdering or friable; polyurethane and acrylic membranes; silicone-contaminated surfaces.

Surface Preparation

- Confirm the substrate is structurally sound and within tolerance before work begins. Application constitutes acceptance of the substrate.
- Clean thoroughly to remove all dust, dirt, oils, grease, laitance, curing compounds, release agents, loose particles, moss and existing coatings that are not sound.
- Remove all standing water and allow the substrate to dry. Do not apply to a wet or ponding surface.
- Reinstate spalled or damaged concrete with the FORSPEC concrete repair system such as FORBUILD 100 or FORCRETE 100, and allow repairs to cure fully.
- Grind back high points, fins and protrusions. Fill blowholes and honeycombing and finish flush.
- On refurbishment work, cut out blisters, remove delaminated material, reinstate the area and confirm the remaining membrane is sound and well adhered.
- Verify falls before waterproofing — minimum 1:100 draining positively to outlets, with no ponding.

Priming

Assess substrate moisture before deciding whether a primer is required. Moisture is measured on a calibrated non-destructive moisture meter, taken as the average of readings across the area and confirmed at the wettest point.

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Priming (continued)

SUBSTRATE MOISTURE	REQUIREMENT
4% or below	No separate primer required on sound, clean, dry concrete, cement substrates and sound existing bituminous surfaces
Above 4%	Two coats of ACTFLEX EP250 as a moisture-suppressing primer system

Where substrate moisture exceeds 4%, apply two coats of ACTFLEX EP250. One coat of ACTFLEX EP250 is a primer; two coats are required for moisture control, and two coats are what this system calls for. Allow a minimum of 24 hours cure after the final coat of ACTFLEX EP250 before any overcoating, and apply strictly in accordance with the current ACTFLEX EP250 Technical Data Sheet, including its recoat window — where the window is exceeded, re-prime.

Diluting ACTFLEX 901 BUV with water to form a primer or tack coat is expressly prohibited — dilution impairs film formation and voids the performance claims in this document. Where substrate absorbency is unusually high, apply the first coat at a slightly increased rate rather than thinning the product, and confirm the approach with FORSPEC Technical Services.

Joints and Detailing

All corner junctions, changes of plane, penetrations, outlets and joints are reinforced with the FORSPEC bandage system before the field membrane is completed. The polyurethane detailing products used elsewhere in the FORSPEC range are not compatible with bitumen and must not be used here.

- Prepare and clean the junction, and confirm it is dry and free of dust and loose material.
- Apply a generous coat of ACTFLEX 901 BUV to the junction, extending a minimum of 100 mm onto each plane.
- Embed the FORSPEC bandage centrally into the wet coat, working it in firmly so it is fully wetted through with no creases, bridging or air pockets.
- Apply a further coat over the bandage immediately, fully encapsulating the reinforcement so no fabric remains visible.
- Allow the detail to dry before the field coats are applied over it.
- Carry the field membrane a minimum of 50 mm beyond the edge of the bandage on each plane.
- Checks: bandage fully wetted through and fully encapsulated; no creases, bridging or exposed fabric; minimum extension achieved onto both planes.

Termination Detailing — FORZAFLEX Sheet Membrane Systems

ACTFLEX 901 BUV is the approved termination and detailing membrane for the FORZAFLEX sheet membrane range. Bitumen bonds to bitumen: the same chemistry that rules ACTFLEX 901 BUV out of the FORSPEC polyurethane systems is what makes it the correct product here. It dresses and seals the points where a sheet system is most vulnerable — terminations, upstands, penetrations and outlets — and it stays exposed, so no further covering is required over the completed detail.

- Install the FORZAFLEX sheet membrane in accordance with its current Technical Data Sheet, and complete all laps and mechanical fixing before detailing begins.
- Clean the sheet surface at every location to be detailed. Remove talc, dust, surface release agents and any loose material — ACTFLEX 901 BUV will not bond through a talced surface.
- Confirm the sheet and the adjoining substrate are dry.
- Apply a generous coat of ACTFLEX 901 BUV over the termination, carrying it a minimum of 100 mm onto the sheet and a minimum of 100 mm onto the adjoining substrate or upstand.
- Embed the FORSPEC bandage centrally into the wet coat across the termination line, working it in firmly so it is fully wetted through, with no creases, bridging or air pockets.
- Apply a further coat immediately, fully encapsulating the bandage so no fabric remains visible.
- At penetrations and outlets, dress the detail in the same sequence, working the bandage down into the outlet and out onto the field sheet.

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Termination Detailing — FORZAFLEX Sheet Membrane Systems (continued)

- At mechanically fastened and ballasted sheet edges, dress the fixed edge so fasteners and the sheet edge are fully encapsulated.
- Allow each detail to dry before it is trafficked or covered.
- Checks: sheet surface clean and free of talc; bandage fully wetted through and encapsulated; minimum 100 mm extension achieved onto sheet and substrate; fasteners and sheet edges fully covered; no exposed fabric.

Mixing

ACTFLEX 901 BUV is a one-component product supplied ready to use. Stir thoroughly with a flat paddle at low speed before use to redisperse settled solids and achieve a uniform consistency. Do not mix at high speed — high-speed mixing entrains air and causes pinholing in the cured film. Do not dilute with water or any thinner under any circumstances. Reseal the pail immediately if the full quantity is not used in the session.

Application and Film Build

Apply by brush or roller in two coats to a total dry film thickness of 1.5 mm. Work the first coat firmly into the substrate to wet out the surface and fill minor imperfections, then apply the second coat at right angles to the first to eliminate holidays and achieve an even build. Do not attempt the full thickness in one pass — a heavy single coat skins over and traps water beneath, causing blistering.

PARAMETER	COAT 1	COAT 2	TOTAL SYSTEM
Dry film thickness (DFT)	0.75 mm	0.75 mm	1.5 mm minimum
Consumption	1.2–1.5 kg/m²	1.2–1.5 kg/m²	2.4–3.0 kg/m²
Recoat window (at 25°C, 50% RH)	Minimum 8 hours — maximum 48 hours	—	—

Checks: bandage details complete and dry before field coats; first coat fully dry before recoating; second coat applied at right angles; no holidays, pinholes or thin areas at upstands and outlets; specified total DFT achieved.

Coverage and Yield

MEASURE	VALUE	BASIS
Consumption per coat	1.2–1.5 kg/m²	0.75 mm dry film thickness
Total consumption (two coats)	2.4–3.0 kg/m²	1.5 mm total DFT
Theoretical yield — 18 kg pail	6.0–7.5 m²	18 kg ÷ 2.4–3.0 kg/m²
Practical yield — 18 kg pail	5.1–6.8 m²	Allowing 10–15% for wastage, substrate porosity and surface profile
Dry film build	1.5 mm total over two coats	Recommended thickness

Coverage varies with substrate porosity, surface profile and application technique. Porous and textured substrates increase consumption — the upper end of each range applies to open-textured concrete and to refurbishment over aged bituminous surfaces. The specified total DFT controls acceptance.

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Drying, Curing and Testing Times

All times below are stated at 25°C and 50% RH at the specified total dry film thickness of 1.5 mm, and run from completion of the stated coat. Low temperature, high humidity, poor ventilation and substrate porosity extend every stage. Water-based products dry by evaporation — in cool, humid or enclosed conditions every stage takes appreciably longer, and the film must be verified dry on site rather than assumed dry from the table.

STAGE (AT 25°C, 50% RH, 1.5 MM DFT)	TIME
Surface dry	Approx. 3.5 hours †
Hard dry	Approx. 7 hours †
Recoat — minimum	8 hours
Recoat — maximum	48 hours
Rain resistant	After hard dry
Light pedestrian traffic	7 days after the final coat
Full cure	7 days after the final coat
Inspection and acceptance	After full cure

† Interpolated to the library reference condition of 25°C and 50% RH from source values determined at 23°C — refer to the Change Register. Protect completed work from rain until the film is rain resistant; rain on an uncured water-based bitumen film will wash out the emulsion and the affected area must be removed and reinstated.

Clean Up

Clean tools and equipment immediately with clean water while the product is still wet. Once dry, ACTFLEX 901 BUV can only be removed mechanically. Do not discharge product or wash water to sewers, stormwater systems, soil or waterways; contain washings and dispose of them in accordance with the relevant State or Territory environment protection legislation and local council requirements.

Container and Waste Disposal

Uncured (liquid) product is classified waste — do not dispose of to landfill, sewers, stormwater or waterways. Small quantities of residual product may be allowed to dry fully in the open container in a ventilated area and, once dry, disposed of as solid waste where permitted by local regulation. Empty, dry pails may be recycled through approved container recycling programs. Do not reuse containers. Dispose of product and containers in accordance with the WHS Regulations, the relevant State or Territory EPA requirements and local council regulations. Refer to Section 13 of the SDS.

Quality Records

Record the batch numbers of all FORSPEC products used, together with substrate preparation and moisture condition, bandage detailing locations and inspections, application dates and ambient conditions, consumption achieved per coat against the specified rate, dry film thickness verification and final inspection results, as part of the project quality assurance records. Batch numbers are printed on the container and provide full manufacturing traceability. The specified total DFT is the acceptance criterion and must be verifiable from the records.

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Storage

Store in original, unopened pails in a well-ventilated, dry place out of direct sunlight, at between 5°C and 35°C. Protect from freezing — a water-based emulsion that has frozen is not recoverable and must not be used. Protect from rain, extrusion and impact, and keep packaging intact. The product is non-flammable and non-explosive and may be transported as general cargo. Shelf life: 12 months from the date of manufacture, unopened, when stored as specified. Reseal immediately after use.

Safety Precautions and First Aid

ACTFLEX 901 BUV is a water-based, non-flammable product. It may nevertheless cause irritation to the skin, eyes and respiratory tract. Use in well-ventilated areas and wear chemical-resistant gloves, protective clothing, safety footwear and protective eyewear, with respiratory protection where the Safety Data Sheet and the workplace risk assessment require it. Do not eat, drink or smoke when handling. Change contaminated clothing immediately and wash hands thoroughly before breaks and after finishing work. Prevent release to drains, soil and waterways.

First aid — Eyes: rinse immediately with plenty of water for at least 15 minutes and seek medical attention if irritation persists. Skin: wash with soap and water; remove contaminated clothing. Inhaled: move the affected person to fresh air; seek medical attention if discomfort persists. Swallowed: do not induce vomiting; seek medical advice immediately. 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 901 BUV 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.

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, a description of the defect with supporting evidence, and your contact details.

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.

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Data Sheet Currency (continued)

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 03/09/2026 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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