ACTFLEX ULTRA TC.



Technical Data Sheet | **100% Solids Two-Component Aliphatic Polyurethane UV Topcoat and Standalone Membrane** | **Issue date: 12 November 2026**

Description

ACTFLEX ULTRA TC is a 100% solids, two-component aliphatic polyurethane engineered to deliver the highest order of ultraviolet stability and mechanical durability available in a liquid-applied finish. Mixed 1:1 and cured through a solvent-free reaction, it lays down its full film in a single pass — wet film equals dry film, with no shrinkage, no solvent release and no film collapse as it cures. The aliphatic backbone holds colour and gloss under sustained solar exposure without chalking or embrittlement, while 450% elongation combined with 4 MPa tensile strength allows the cured film to absorb substrate movement and impact without cracking. It performs in two distinct roles: as the UV-stable, trafficable protective face over cured ACTFLEX 929 SL and ACTFLEX 929 HV membranes, and as a standalone UV-stable trafficable waterproofing membrane in its own right, applied over ACTFLEX EP250. Its 40-minute pot life gives a working window suited to squeegee and roller application across large open areas.

Advantages

- 100% solids — wet film equals dry film. No shrinkage, no solvent loss, no film collapse.
- Aliphatic polyurethane — holds colour and gloss under sustained UV without chalking.
- 450% elongation with 4 MPa tensile strength — absorbs movement and impact.
- Rated for heavy foot traffic when fully cured — suited to pedestrian traffic and wearing surfaces.
- Dual role — protective topcoat over the ACTFLEX 929 range, or a standalone membrane system over EP250.
- Simple 1:1 mix by volume and by weight — no measuring error on site.
- 40-minute pot life at 25°C and 50% RH — a genuine working window on open areas.
- Recoatable from 12 hours at 25°C and 50% RH - a two-coat system can be completed on consecutive days.
- Solvent-free — no solvent odour and no flash point during application.

Uses

- UV-stable protective topcoat over cured ACTFLEX 929 SL.
- UV-stable protective topcoat over cured ACTFLEX 929 HV.
- Standalone UV-stable trafficable waterproofing membrane over two coats of ACTFLEX EP250, at 1.2 mm total DFT.
- Exposed trafficable wall and floor surfaces requiring a durable UV-stable finish.
- Plant rooms, walkways, balconies and exposed horizontal surfaces subject to foot traffic.
- Refurbishment of existing solvent-based polyurethane membranes requiring a new UV-stable wearing face.

Limitations

- Not a primer. Over porous and cementitious substrates the standalone system requires two coats of ACTFLEX EP250 beneath it.
- Not for permanent immersion. Not for swimming pools, tanks or ponds.
- Not for negative-side hydrostatic pressure.
- Apply only to dry substrates between 10°C and 30°C, and never where rain threatens before the film has cured.
- Apply only when the substrate is at least 3°C above dew point and relative humidity is below 80%.
- Rated for heavy foot traffic and car / light vehicle traffic once fully cured (7 days) - not designed for forklifts, heavy vehicles or steel-wheeled loads.
- Observe the 24-hour maximum recoat window - beyond it the surface must be abraded and cleaned before the next coat.

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Limitations (continued)

- Pot life is 40 minutes at 25°C and 50% RH and shortens sharply as temperature rises — mix only what can be laid within the window.
- Do not dilute. Dilution of a 100% solids system is not permitted under any circumstances.
- Mix ratio is fixed at 1:1 — part-mixing kits is not permitted unless both components are weighed accurately.
- Complete a trial area where substrate, adhesion or colour is uncertain.

Compliance Status

All performance values in this document are typical FORSPEC R&D characteristic values, determined to the test standards named in the tables, and are asterisked accordingly. Values are not to be relied upon for engineering design without written confirmation from FORSPEC Technical Services.

Technical Data

PROPERTY	VALUE	BASIS
Form	Two-component liquid	—
Mix ratio	1:1 Part A to Part B	—
Packaging	40 kg kit (20 kg Part A + 20 kg Part B)	—
Solids content	100%	FORSPEC R&D to ASTM D2369 *
Mixed density	1.4 kg/L	FORSPEC R&D to ASTM D1475 *
Elongation at break	450%	FORSPEC R&D to ASTM D412 *
Tensile strength	4 MPa	FORSPEC R&D to ASTM D412 *
Peel strength	1.2 N/mm	FORSPEC R&D to ASTM D903 *
Bond strength to primed substrate	1.5 MPa	FORSPEC R&D to ASTM D4541 *
Shore A hardness	85	FORSPEC R&D to ASTM D2240 *
Pot life (at 25°C, 50% RH)	40 minutes	FORSPEC R&D to ISO 9514 *
Recoat window (at 25°C, 50% RH)	Minimum 12 hours, maximum 24 hours	FORSPEC R&D to ASTM D1640 *
Full cure (at 25°C, 50% RH)	7 days	FORSPEC R&D to ASTM D2240 *
Ultraviolet stability	Aliphatic — non-chalking, colour and gloss stable	FORSPEC R&D to ASTM G154 / ASTM D4214 *
Trafficability	Heavy foot traffic and car / light vehicle traffic, when fully cured	FORSPEC R&D *
Finish	Smooth; anti-slip finish optional	—
Application temperature	10–30°C (ambient and substrate)	—
Shelf life	12 months, unopened, stored as specified	—

* Typical Forspec R&D characteristic values on standard production material at 25°C and 50% relative humidity — not for engineering design without written confirmation from FORSPEC Technical Services.

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Consumption, Coverage and Yield

At 100% solids the wet film thickness equals the dry film thickness — there is no solids correction and no allowance for shrinkage. Consumption in kilograms per square metre is therefore the DFT in millimetres multiplied by the mixed density of 1.4 kg/L.

SYSTEM	TOTAL DFT	CONSUMPTION	THEORETICAL PER 40 KG KIT	PRACTICAL PER 40 KG KIT
Topcoat over ACTFLEX 929 SL or 929 HV — light duty	0.3 mm (1 coat)	0.42 kg/m²	95 m²	86 m²
Topcoat over ACTFLEX 929 SL or 929 HV — standard duty	0.6 mm (1 coat)	0.84 kg/m²	48 m²	43 m²
Standalone membrane over two coats of ACTFLEX EP250	1.2 mm (2 coats)	1.68 kg/m²	24 m²	21 m²

Basis: a 40 kg kit at 1.4 kg/L is 28.6 L. At 0.3 mm, 28.6 ÷ 0.30 = 95 m². At 0.6 mm, 28.6 ÷ 0.60 = 48 m². At 1.2 mm, 28.6 ÷ 1.20 = 24 m². Practical yield allows 10% for substrate profile, roller and squeegee loading, detailing and wastage, and is the figure to use for ordering. The specified total DFT controls acceptance.

Substrate Preparation

- Substrates must be structurally sound, dimensionally stable, clean and dry. Application constitutes acceptance of the substrate.
- Remove all oils, grease, curing compounds, release agents, laitance, loose particles and existing coatings that are not sound.
- Concrete: cured a minimum of 28 days, mechanically prepared by grinding or shot blasting to an open profile, then primed with two coats of ACTFLEX EP250 for the standalone system.
- Over existing ACTFLEX 929 SL or 929 HV: the membrane must be fully cured, sound and well adhered. Clean thoroughly and confirm intercoat adhesion on a trial area.
- Measure concrete moisture before priming. The substrate must not exceed 4.5% moisture content before ACTFLEX EP250 is applied.
- Reinstate damaged concrete with the FORSPEC concrete repair system such as FORBUILD 100 or FORCRETE 100; structural cracks with the FORSPEC epoxy crack repair range.
- Falls to drainage outlets per the project design and AS 4654.2 where the system is used externally.

Mixing

- Condition both components to between 15°C and 25°C before mixing.
- Empty Part B fully into Part A and mix with a low-speed drill (300-400 rpm) and helical paddle for a minimum of three minutes until uniform in colour, scraping the sides and base of the vessel.
- Avoid high-speed mixing and air entrainment — entrained air will pinhole the cured film.
- Decant into a clean vessel and remix briefly. Unmixed material clinging to the original vessel is the commonest cause of soft spots.
- Apply immediately. The pot life is 40 minutes at 25°C and 50% RH and heat shortens it substantially.

Application

- Apply by notched squeegee and back-roll, or by roller, working to the specified wet film thickness.
- Back-roll with a short-nap 10-12 mm roller and cross-roll for a uniform finish. Do not over-roll once the film begins to cure.
- At 100% solids the wet film gauge reading is the dry film — check WFT continuously per coat with a wet film gauge.
- Topcoat over the ACTFLEX 929 range: one coat at 0.3 mm or 0.6 mm DFT as specified for the duty.
- Standalone system: two coats over cured ACTFLEX EP250 to 1.2 mm total DFT, the second at approximately right angles to the first.
- Apply the second coat after a minimum of 12 hours and within 24 hours of the first, at 25°C and 50% RH.
- Anti-slip finish (optional): broadcast ACTFLEX ANTISLIP into the wet coat and lock it in with a further coat of ACTFLEX ULTRA TC.
- Maintain a wet edge and work in continuous bays. Do not allow material to stand in the mixing vessel.
- Checks: WFT verified per coat; no pinholes, misses or ponded material; details fully encapsulated; total DFT achieved — the specified DFT controls acceptance.

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Drying, Curing and Testing Times

All times below are measured at 25°C and 50% RH at 0.6 mm DFT per coat, and run from the completion of the stated coat. Low temperature and high humidity extend every stage; heat shortens pot life and the recoat window.

STAGE (AT 25°C, 50% RH)	TIME	BASIS
Pot life	40 minutes	FORSPEC R&D to ISO 9514 *
Tack-free	5 hours	FORSPEC R&D to ASTM D1640 *
Through dry	12 hours	FORSPEC R&D to ASTM D1640 *
Recoat - minimum	12 hours	FORSPEC R&D to ASTM D1640 *
Recoat - maximum	24 hours	FORSPEC R&D to ASTM D1640 *
Light foot traffic	24 hours after final coat	*
Heavy foot traffic	7 days after final coat	*
Full cure	7 days after final coat	FORSPEC R&D to ASTM D2240 *
Flood test (standalone membrane)	After full cure - 24-hour test duration	—
Abrade and clean before recoating	If the 24-hour recoat window is exceeded	—

* Typical Forspec R&D characteristic values on standard production material at 25°C and 50% relative humidity — not for engineering design without written confirmation from FORSPEC Technical Services.

- Over ACTFLEX 929 SL or 929 HV: apply once the membrane is fully cured per its TDS, and within the following 24 hours.
- Over ACTFLEX EP250: apply 12 to 24 hours after the final EP250 coat; beyond 24 hours, abrade, remove all dust and re-prime with ACTFLEX EP250.
- Window exceeded: abrade the surface, remove all dust, solvent-wipe with FORSPEC EPOXY CLEANER and allow to flash off before recoating.
- Protect from rain, condensation, standing water and all traffic until the times above are reached.

Clean Up

Remove excess uncured product immediately and clean tools with FORSPEC EPOXY CLEANER where the Safety Data Sheets for both components permit its use. Cured ACTFLEX ULTRA TC can only be removed mechanically. Do not discharge product, solvent or wash water into drains, soil or waterways.

Container and Waste Disposal

Mix and cure residues fully before disposal as construction waste. Uncured components are never discharged to sewer, drains, soil or waterways. Empty containers 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 both components and of any primer used, mix ratios and mixing times, substrate moisture readings, application dates and ambient conditions, wet film thickness measurements per coat, recoat intervals and cure times observed, 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.

Storage

Store both components in original, unopened containers in cool, dry conditions between 10°C and 25°C, protected from moisture, frost and direct sunlight. Part B is moisture-sensitive — reseal immediately after use. Shelf life: 12 months from the date of manufacture when stored as specified.

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Safety Precautions and First Aid

ACTFLEX ULTRA TC is classified in accordance with the current Safety Data Sheets for both components and may cause skin and eye irritation and respiratory sensitisation. Use in well-ventilated areas, avoid breathing vapour or spray mist, and wear chemical-resistant gloves, protective clothing, safety footwear and protective eyewear, with respiratory protection where the SDS and workplace risk assessment require. Change soiled clothing immediately and wash hands before breaks and after 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. 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 ULTRA TC 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.

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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 12/11/2026 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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