FORSPEC PROTECTIVE COATINGS

ACTFLEX ATC.



Technical Data Sheet | **UV-Stable Aliphatic Polyurethane Topcoat for Exposed Trafficable Membranes** | **Issue date: 25 August 2026**

Description

ACTFLEX ATC is a single-pack, moisture-curing aliphatic polyurethane topcoat engineered to carry the exposed face of a FORSPEC waterproofing system through sustained UV, traffic and chemical attack. The aliphatic backbone is what makes it UV stable rather than merely UV tolerant: tested to 2,000 hours of accelerated UVB exposure under ASTM G154-16, the film showed no visible cracking, blistering or chalking, and held its gloss.

Applied over cured polyurethane and polyurea membranes it converts a protected system into a trafficable one, taking both foot and vehicle traffic while resisting oils, cleaning agents and harsh chemicals. The cured surface is smooth and low-porosity, so dirt does not build into the film and maintenance stays simple across balconies, podiums, rooftops, parking decks and exposed plant areas. Single pack means no mixing ratio, no pot life to race and no mixed-material waste at the end of a shift.

Advantages

- UV stable — 2,000 hours accelerated UVB exposure to ASTM G154-16 with no visible cracking, blistering or chalking.
- Aliphatic polyurethane chemistry delivers genuine gloss retention rather than slow yellowing.
- Trafficable finish suitable for both foot and vehicle traffic.
- High chemical resistance against oils, cleaning agents and harsh chemicals.
- Single-pack moisture-curing formula — no mixing ratio, no pot life, no mixed-material waste.
- Smooth, low-porosity surface resists dirt build-up and cleans easily.
- Excellent adhesion to correctly prepared polyurethane and polyurea membranes.
- Available clear or grey for exposed architectural and trafficked areas.

Uses

- Protective UV topcoat over cured FORSPEC polyurethane and polyurea waterproofing membranes.
- Exposed balconies, terraces and podium decks.
- Rooftops and exposed horizontal surfaces.
- Car parking decks and vehicle-trafficked membrane areas.
- Plant rooms, service areas and exposed plinths.
- Any location where a waterproofing membrane remains permanently exposed to sunlight.
- Refreshing and re-protecting existing FORSPEC polyurethane topcoat systems.

Compliance Status

ACTFLEX ATC carries accredited UV exposure data to ASTM G154-16. All other performance values are published as typical R&D characteristic values.

STANDARD / TEST	STATUS	REFERENCE
ASTM G154-16 — accelerated UV exposure	2,000 hours UVB — no visible cracks, blistering or chalking	Accredited test data — report number to be cited at next revision
ASTM D412 — tensile and elongation	Manufacturer data	Forspec R&D *
AS 1683.15 — hardness	Manufacturer data	Forspec R&D *

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Compliance Status (continued)

STANDARD / TEST	STATUS	REFERENCE
ASTM D3960 — non-volatile content	Manufacturer data	Forspec R&D *
VOC certification	Not currently held	Certificate to be commissioned

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	Single-pack, moisture-curing aliphatic polyurethane topcoat	—
Colour	Clear or grey	—
Hardness	90 ± 5 Shore A	AS 1683.15 *
Tensile strength	> 30 MPa	ASTM D412 *
Elongation at break	> 140%	ASTM D412 *
Non-volatile content	68 ± 2%	ASTM D3960 *
Density — liquid	1.04 g/cm³	*
Density — cured solid	1.12 g/cm³	*
UV resistance	2,000 hours accelerated UVB — no visible cracks, blistering or chalking	ASTM G154-16
Coverage	6–8 m²/L per coat	—
Coats	2 where full film build and durability are required	—
Tack-free time (at 25°C, 50% RH)	3 hours	*
Intercoat drying before second coat (at 25°C, 50% RH)	4–6 hours	—
Cure time (at 25°C, 50% RH)	12 hours	*
Maintenance recoat window (at 25°C, 50% RH)	After 12 hours and before 36 hours	—
Recommended substrate temperature	+5°C to +35°C	—
Maximum substrate moisture	5%	—
Service temperature	−20°C to +80°C	—
Shelf life	12 months, unopened, stored as specified *	*

The UV exposure regime is a UVB-313-EL lamp at approximately 310 nm wavelength, irradiance 0.71 W/m²/nm, cycled 4 hours UV at 60°C alternating with 4 hours humidity at 50°C. Intercoat drying of 4–6 hours applies within the initial two-coat system; the 12–36 hour window applies to a later maintenance recoat.

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

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Coverage and Yield

MEASURE	VALUE	BASIS
Coverage per coat	6–8 m^2/L	Manufacturer application rate
Consumption per coat	Approx. 0.13–0.17 L/m^2 *	At 6–8 m^2/L
Total consumption — two-coat system	Approx. 0.25–0.33 L/m^2 *	Two coats at the stated rate
Coverage — 4 L pack	Approx. 24–32 m^2 one coat; 12–16 m^2 two coats *	At 6–8 m^2/L
Coverage — 15 L pack	Approx. 90–120 m^2 one coat; 45–60 m^2 two coats *	At 6–8 m^2/L
Coverage — 20 L pack	Approx. 120–160 m^2 one coat; 60–80 m^2 two coats *	At 6–8 m^2/L

Coverage varies with substrate texture and application method. Confirm pack sizes against the current pack schedule before ordering.
* Typical R&D characteristic values, not for engineering design without written FORSPEC confirmation.

Limitations

- Not a waterproofing membrane — ACTFLEX ATC protects a membrane; it does not waterproof an area.
- Applied only over cured FORSPEC polyurethane and polyurea membranes — confirm compatibility with a FORSPEC representative before use over any other system.
- Do not apply where substrate moisture exceeds 5%.
- Do not apply below 5°C or above 35°C substrate temperature.
- Do not dilute unless expressly instructed in writing by an authorised FORSPEC representative.
- Where the membrane has been cured and left exposed for more than 24 hours before topcoating, thorough cleaning is mandatory — consult a FORSPEC representative for the approved cleaning method.
- Beyond the 36-hour maintenance recoat window the surface must be abraded and cleaned before recoating.
- Not a levelling or filling product — surface defects, pinholes and membrane irregularities must be rectified before topcoating.
- Not for immersion service without written FORSPEC approval.
- The uncured product and its vapours are combustible — exclude all ignition sources.

Surface Preparation

- Confirm the FORSPEC waterproofing membrane is fully cured in accordance with its Technical Data Sheet before topcoating.
- Inspect the membrane for contaminants, dust, pinholes, damage and surface irregularities that would affect adhesion, and rectify every defect before proceeding.
- Where the membrane has been cured and left exposed for more than 24 hours, clean thoroughly by the method approved by a FORSPEC representative.
- Confirm substrate moisture does not exceed 5%.
- Remove all dust and debris by vacuum or compressed air immediately before coating.
- Confirm substrate and ambient temperature are between 5°C and 35°C and that no rain is forecast before the film is tack-free.

Application and Film Build

- Stir the product thoroughly and gently before use — do not whip air into it.
- Apply the first coat by roller, brush or airless spray at a coverage rate of 6–8 m^2 per litre.
- Work to a uniform, continuous film with consistent overlap and no holidays, ribbing or pooling.
- Allow the first coat to dry for 4–6 hours, depending on temperature and humidity.
- Apply the second coat at the same coverage rate to achieve the required film build and durability, ensuring proper overlap between coats for a consistent finish.
- Protect the finished coating from rain, standing water and traffic until cured.
- Inspect the finished film for holidays, pinholes and inconsistent gloss before releasing the area.

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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
Tack-free	3 hours *
Intercoat drying before the second coat	4–6 hours
Cure	12 hours *
Foot traffic	After full cure *
Vehicle traffic	After full cure *
Maintenance recoat window	After 12 hours and before 36 hours
Abrade and clean before recoating	If the 36-hour recoat window is exceeded

Tack-free and cure times depend on temperature and relative humidity; cool or dry conditions extend both, since the product cures on atmospheric moisture.

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

Clean Up

Clean tools and equipment immediately while the product is still wet, wiping down with FORSPEC EPOXY CLEANER or an approved solvent where the Safety Data Sheet permits. Once dry the product is difficult to remove and mechanical means will be necessary. Observe all WHS requirements and the Safety Data Sheet for safe solvent handling. Do not discharge product or wash water into sewers or waterways and do not touch spilled material.

Container and Waste Disposal

Allow residues to fully cure before disposal in accordance with State and local requirements, and route unused product to an authorised waste collection point per Section 13 of the Safety Data Sheet. Do not seal or stopper drums being decontaminated — carbon dioxide is generated and may pressurise the container. Do not reuse contaminated packaging and do not discharge into sewers or waterways.

Quality Records

Record the batch numbers of all ACTFLEX ATC used, the membrane system and its cure confirmation, substrate moisture readings, cleaning method where the membrane was exposed beyond 24 hours, coverage achieved per coat, number of coats applied, application dates and ambient conditions, intercoat and cure intervals observed, and final film inspection results, as part of the project quality assurance records.

Storage

Store in original, unopened containers in a cool, dry, well-ventilated place, tightly closed and away from heat, sparks, open flames and all ignition sources — the product is moisture-curing and opened containers skin over. Shelf life: 12 months from the date of manufacture when stored as specified.*

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Safety Precautions and First Aid

Refer to the current Safety Data Sheet before use. This product is a solvent-borne moisture-curing polyurethane and is classified as hazardous: it may cause skin and eye irritation, may cause respiratory irritation, and the uncured product and its vapours are combustible. Use in well-ventilated areas and exclude all sources of ignition. Wear protective gloves, protective clothing, eye protection and appropriate respiratory protection where ventilation is inadequate or where the SDS and workplace risk assessment require it. Do not eat, drink or smoke when handling; wash hands before breaks and after work. The Chemwatch SDS number for this product is to be confirmed — refer to the Change Register.

First aid — Eyes: rinse cautiously with water for several minutes; remove contact lenses if easy to do; continue rinsing and seek medical attention. Skin: remove contaminated clothing and wash with plenty of soap and water; do not use solvent to clean skin. Inhaled: move to fresh air and keep comfortable; seek medical attention if breathing difficulty occurs. Swallowed: do NOT induce vomiting; rinse mouth and seek immediate medical attention. 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 ATC 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 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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Data Sheet Currency (continued)

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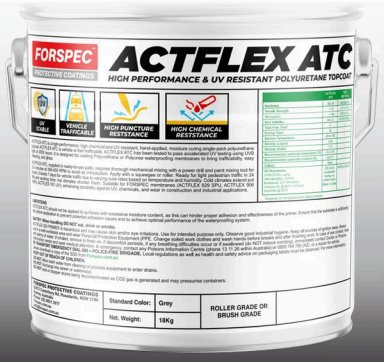
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