ACTFLEX 700 PU PRIMER.



FORSPEC PROTECTIVE COATINGS

Technical Data Sheet | Fast-Drying Moisture-Curing Polyurethane Primer for Porous Substrates | Issue date: 12 August 2026

Description

ACTFLEX 700 PU PRIMER is a single-pack, fast-drying, moisture-curing polyurethane primer engineered to drive adhesion between porous substrates and the FORSPEC solvent-based waterproofing systems — ACTFLEX 929 SL and ACTFLEX 929 HV. Applied as one even coat, it is touch dry in as little as 30 minutes and ready for membrane application within hours — the speed primer of the FORSPEC range. It also serves as the bonding agent for re-coating existing solvent-based polyurethane liquid membranes. It is a primer, not a moisture barrier: substrate moisture control is the role of ACTFLEX EP250 or ACTFLEX MB200 per the host system TDS.

Advantages

- Fast — touch dry in as little as 30 minutes; waterproof after 3 hours; full cure in 6 hours at 25°C, 50% RH.
- One even coat — no multi-coat priming sequence on porous substrates.
- The specified primer for the solvent-based ACTFLEX 929 SL and ACTFLEX 929 HV membrane systems.
- The bonding agent for re-coating existing solvent-based polyurethane liquid membranes.
- High-build, penetrating film consolidates porous surfaces.
- Translucent matte finish — the substrate stays visible for inspection.
- Applies by brush, roller or approved spray.
- Single pack — no mixing ratios, straight from the can.

Uses

- Primer for porous substrates beneath FORSPEC solvent-based waterproofing membranes, including the ACTFLEX moisture-cured polyurethane range.
- Primer beneath ACTFLEX 75FC and FORSPEC solvent-based joint sealants on dry internal surfaces.
- Bonding agent for re-coating and tying into existing solvent-based polyurethane liquid membranes.
- Consolidating primer for new and old concrete, renders, masonry, brickwork and timber.
- Wet-area-grade fibre cement and compressed fibre cement sheeting, per the host system TDS.

Compliance Status

No Australian Standard prescribes performance requirements for solvent-based polyurethane primers of this type; system compliance is carried by the host FORSPEC membranes and sealants applied over it, per their TDS. Hazard classification: HAZARDOUS CHEMICAL, DANGEROUS GOODS, Poisons Schedule S6 — flammable liquid and vapour — per the current SDS (Version 3.6, 17/03/2025).

Technical Data

PROPERTY	VALUE	BASIS
Product type	Single-pack, moisture-curing polyurethane primer	—
Appearance	Translucent matte, viscous liquid; solvent odour	*
Packaging	1 L, 4 L and 17 L (approx. 0.9 kg, 3.6 kg and 15.3 kg at nominal 0.9 kg/L)	—
Density (at 25°C)	0.80–1.00 g/mL	*

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Technical Data (continued)

PROPERTY	VALUE	BASIS
Solids content	Greater than 30% (volatile content less than 70% w/w)	*
Flash point	Greater than 23°C — flammable liquid and vapour	SDS
Vapour pressure (at 25°C)	3.8 kPa	*
Solvent resistance (cured)	Good	*
Touch dry (minimum)	30 minutes at 20°C, 50% RH; 15 minutes at 30°C, 50% RH	*
Waterproof (at 25°C, 50% RH)	3 hours	*
Full cure (at 25°C, 50% RH)	6 hours	*
Overcoat window	Once touch dry, and within a maximum of 24 hours — re-prime if exceeded	—
Nominal DFT	60 µm, one coat, per FORSPEC project specifications	—
Coverage	4–6 m^2/L per coat, porosity-dependent (approx. 4.4–6.7 m^2/kg)	*
Application temperature	10–26°C (ambient and substrate); minimum 10°C surface	—
Opened containers	Use the same day — moisture-cured; airborne moisture cures the can	—
Shelf life	6 months, unopened, stored at 10–25°C	*

* Typical Forspec R&D characteristic values on standard production material — no accredited test reports exist for this product. Values are not to be relied upon for engineering design without written confirmation from FORSPEC Technical Services.

Coverage and Yield

PACK	COVERAGE PER COAT AT 4–6 M^2/L
1 L	Approx. 4–6 m^2
4 L	Approx. 16–24 m^2
17 L	Approx. 68–102 m^2

Coverage depends heavily on substrate porosity and texture — highly absorbent surfaces sit at the lower end. The one-coat, 60 µm nominal DFT system governs acceptance.

Limitations

- NOT a moisture or vapour barrier — substrate moisture causes the primer to blister and peel. Substrate moisture control is the role of ACTFLEX EP250 or ACTFLEX MB200 per the host system TDS.
- For porous substrates — the fast-drying polyurethane primer of the range, per the FORSPEC primer selection logic.
- Never use under or with water-based products.
- Not UV-stable — the primed surface is overcoated with the specified membrane or sealant and never left exposed beyond 48 hours after full cure.
- Staining may occur on some substrates — a sample trial area is completed on every substrate before full application.
- Opened containers are used the same day — the product cures on airborne moisture and part-used cans destabilise.
- Apply only between 10–26°C; never below 10°C surface temperature.
- Flammable liquid and vapour — all ignition sources excluded during application and cure; ventilation mandatory.
- Never store in pits, depressions, basements or anywhere vapours can trap.

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Surface Preparation

- Substrates must be structurally sound, dry, clean and free of dust, laitance, oils, grease, curing compounds, coatings and all loose or friable material.
- Repair holes and non-moving cracks with the appropriate FORSPEC repair system — FORBUILD 100, FORCRETE 100, or the FORSPEC epoxy crack repair range — cured and prepared per its TDS.
- For re-coating existing polyurethane membranes: the existing membrane must be sound, well-bonded, clean and dry — abrade glossy surfaces and remove all contamination before priming.
- Complete the staining trial area and confirm the result before full application.

Application and Film Build

Stir the product thoroughly and gently before use — do not whip air in. Ensure continuous ventilation and exclude all ignition sources. Apply ONE even coat by brush, roller or approved spray at 4–6 m²/L, working the primer into the surface texture without ponding or heavy film build. Allow the primer to become touch dry — as little as 30 minutes at 20°C, 50% RH — before installing backing rod, sealant or the waterproofing membrane system, and complete the over-coating within a maximum of 24 hours: where the window is exceeded, re-prime. Checks: full, even coverage with no misses or ponds; touch-dry confirmed by firm finger touch with no transfer; trial area passed.

ACTFLEX 700 PU PRIMER is applied as ONE even coat. It is a primer, not a moisture barrier — where moisture control is required, specify ACTFLEX EP250 or ACTFLEX MB200.

PARAMETER	REQUIREMENT
Number of coats	One coat only
Consumption	Approx. 0.17–0.25 L/m² (4–6 m² per litre)
Application method	Brush, roller or approved spray
Overcoat window (at 25°C, 50% RH)	Once touch dry, maximum 24 hours — re-prime if exceeded
Dilution	Prohibited unless approved in writing by an authorised FORSPEC representative

Drying, Curing and Testing Times

All times below are measured at 25°C and 50% RH. Low temperature, high humidity, poor ventilation and increased thickness extend every stage — verify on site before proceeding.

STAGE (AT 25°C, 50% RH)	TIME
Touch dry	30 minutes at 20°C, 50% RH; 15 minutes at 30°C, 50% RH †
Waterproof	3 hours
Full cure	6 hours
Overcoat window	Once touch dry, maximum 24 hours — re-prime if exceeded
Maximum exposure before overcoating	48 hours after full cure — not UV stable

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Drying, Curing and Testing Times (continued)

† Touch-dry time is currently stated at 20°C and 30°C reference conditions and is to be restated at 25°C and 50% RH — refer to the Change Register.

Clean Up

Clean tools and equipment immediately while the primer is wet, wiping down with a suitable solvent handled per its own SDS — once dry, the primer can only be removed mechanically. Observe all WHS and SDS requirements for solvent handling. Do not discharge product or cleaning residues to sewers, soil or waterways, and do not touch spilled material without the specified PPE.

Container and Waste Disposal

Dispose of contents and containers to an authorised hazardous or special waste collection point in accordance with local regulation — the product is classified dangerous goods. Do not seal or stopper containers being decontaminated: the moisture-curing reaction generates CO_2 and may pressurise sealed containers. Refer to Section 13 of the SDS.

Quality Records

Record the batch numbers of all ACTFLEX 700 PU PRIMER used, substrate preparation and trial-area results, application dates and conditions, touch-dry confirmation and over-coating times against the 24-hour window, as part of the project quality assurance records.

Storage

Store locked up in original, unopened containers in a cool, dry, well-ventilated place between 10°C and 25°C, away from heat, sparks, open flames and all ignition sources — the uncured product is flammable. Never store in pits, depressions, basements or areas where vapours may be trapped. Protect from sunlight and moisture — the product is sensitive to airborne moisture, and opened containers are used the same day. Shelf life: 6 months from the date of manufacture when stored as specified.

Safety Precautions and First Aid

ACTFLEX 700 PU PRIMER is classified as a HAZARDOUS CHEMICAL and DANGEROUS GOODS, Poisons Schedule S6, under its current Safety Data Sheet (Version 3.6, 17/03/2025): flammable liquid and vapour; may be fatal if swallowed and enters airways; causes skin irritation and serious eye irritation; may cause an allergic skin reaction; may cause allergy or asthma symptoms or breathing difficulties if inhaled; may cause respiratory irritation; MAY CAUSE CANCER BY INHALATION; may cause damage to organs through prolonged or repeated exposure. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources — no smoking; ground and bond containers and receiving equipment; use explosion-proof electrical, ventilating and lighting equipment and non-sparking tools; take action against static discharge. Use only in well-ventilated areas with respiratory protection, and wear protective gloves, protective clothing, and eye and face protection at all times. Persons with a history of respiratory sensitisation must not be exposed. Contaminated work clothing must not leave the workplace. Do not eat, drink or smoke when using.

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Safety Precautions and First Aid (continued)

First aid — Swallowed: immediately call a doctor or the POISONS INFORMATION CENTRE; do NOT induce vomiting. Inhaled: remove to fresh air and keep comfortable; if experiencing respiratory symptoms, call a doctor immediately. 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: take off all contaminated clothing immediately and rinse skin with water or shower; wash with plenty of soap and water; seek medical advice if irritation or rash occurs. 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 700 PU PRIMER 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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