ACTFLEX MS PRO.



Technical Data Sheet | One-Component Modified Silane Polymer Joint Sealant | Issue date: 26 August 2026

Description

ACTFLEX MS PRO is a one-component, moisture-curing modified silane polymer joint sealant engineered for permanently elastic sealing and detailing across the full range of building substrates. Its silane-terminated polymer backbone cures on contact with atmospheric moisture to a tough, permanently flexible rubber that accommodates repeated structural and thermal movement without loss of adhesion. Free of isocyanates, solvents and silicone oils, it develops primerless adhesion to most construction materials, cures without shrinkage or air bubbling, and leaves no plasticiser migration or staining on adjacent porous surfaces — a decisive advantage on face brickwork, natural stone and architectural concrete. It is non-corrosive to metals, holds low static charge for reduced dirt streaking along the joint line, resists ultraviolet exposure without embrittlement, and is overpaintable with water-based and multi-component coatings. Supplied ready to gun in 600 mL sausages, ACTFLEX MS PRO tools cleanly to a dense, void-free profile in sealant joints, at perimeter and change-of-plane junctions, around penetrations, and as the cove fillet within FORSPEC waterproofing systems.

Advantages

- Modified silane polymer — isocyanate-free, solvent-free and silicone oil-free.
- Primerless bonding to most construction substrates, reducing preparation time.
- Non-staining — no plasticiser migration onto porous stone, brick or concrete.
- Cures without shrinkage and without air bubbling, producing a dense void-free bead.
- Permanently elastic with low modulus, accommodating repeated cyclic movement.
- Good ultraviolet resistance — does not embrittle on exposure.
- Low static charge — less dirt pick-up and streaking along the joint line.
- Overpaintable with water-based and multi-component coatings.
- Non-corrosive to metals and free of pollutants harmful to the base material.
- Low VOC — 16 g/L certified, against a 50 g/L Green Star limit.
- Ready to gun — no mixing, no induction time, no pot life.

Uses

- Construction, expansion and control joints in concrete, masonry and render.
- Perimeter and change-of-plane junctions, wall/floor and wall/wall internal corners.
- Cove fillets within FORSPEC waterproofing membrane systems.
- Penetrations, pipe collars and floor waste perimeters prior to membrane application.
- Sealing to metal, glass, ceramic tile, glass reinforced plastic and fibre cement.
- Chase sealing to butyl rubber products.
- Movement joints in tiled installations, where the joint is not subject to immersion.

Compliance Status

ACTFLEX MS PRO is classified by Forspec Protective Coatings as an ISO 11600 F Class 25 LM sealant — a movement accommodation of ±25% with low modulus at 100% elongation.† This classification is a manufacturer classification based on internal characterisation and is not presently supported by an accredited third-party test report; verification testing has been programmed.

Volatile organic compound content is certified by NATA-accredited testing as set out below.

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Compliance Status (continued)

STANDARD / TEST	RESULT	REPORT / CERTIFICATE
ISO 11600 — sealant classification	F Class 25 LM†	Manufacturer classification — verification testing programmed
VOC content (ASTM D3960)	16 g/L — meets GBCA Green Star Design & As Built V1.3-13.1.1B and Interiors V1.3-12.1.1B (general purpose adhesive and sealant limit 50 g/L)	CETEC Pty Ltd, tested by FORAY Laboratories (NATA accreditation 1231), Certificate P26050125, valid to 29/05/2031
Hazard classification	Hazardous chemical; refer to the current Safety Data Sheet	Chemwatch 5689-13

† Manufacturer classification pending accredited verification testing. Not to be relied upon for engineering design without written confirmation from FORSPEC Technical Services. Certificates are available on request from Forspec Protective Coatings.

Technical Data

PROPERTY	VALUE	BASIS
Form	One-component homogeneous paste	—
Colour	Black, grey or white	—
Packaging	600 mL sausage	—
Non-volatile content	99%	—
Density	1.63 kg/L	—
Shore A hardness	45 approx.	DIN 53505
Tensile strength	1.7 MPa	DIN 53504
Elongation at break	350%	ISO 37 equivalent *
Tear propagation resistance	≥ 6 N/mm	*
Extrudability	600 g / 15 s	*
Sag / slump	≤ 1 mm (20 mm profile, at 25°C)	ISO 7390
Movement accommodation factor	± 25%†	ISO 11600 F Class 25 LM
Tack-free time (at 25°C, 50% RH)	15 minutes	—
Cure rate (at 25°C, 50% RH)	2.0 mm per day	—
Full cure, 10 mm bead (at 25°C, 50% RH)	Approximately 5 days	—
Application temperature	5–35°C (ambient and substrate)	—
Service temperature	−10°C to +65°C	—
VOC content	16 g/L	ASTM D3960 — Certificate P26050125
Shelf life	12 months, unopened, stored as specified	—

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Technical Data (continued)

Values marked * are 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. † Manufacturer classification pending accredited verification testing.

Limitations

- Not for use on polyethylene, polypropylene, polybutylene, polycarbonate or bituminous substrates.
- Not for structural glazing.
- Not for trafficked floor joints or joints subject to point loading, wheeled traffic or abrasion. Use within FORSPEC membrane detailing at wall/floor junctions, cove fillets and penetrations is permitted and is the specified method.
- Not for joints under permanent hydrostatic or pneumatic pressure, and not for permanently immersed joints. Use within positive-side waterproofing details that are subsequently encapsulated by the membrane is permitted.
- Not for pipes conveying fluids under pressure.
- Not for areas of continual exposure to aggressive solvents or chemicals.
- Not for application to painted timber or painted wood-based products.
- Overcoating with any elastomeric-compatible paint may reduce movement accommodation and can lead to dirt pick-up and discolouration over time — trial before adopting.
- Apply only between 5°C and 35°C, to dry substrates, and never where the joint faces are damp, frosted or contaminated.
- Complete a trial area where substrate, adhesion or coating compatibility is uncertain.
- Do not thin, dilute or adulterate the sealant under any circumstances.

Substrates and Compatibility

Primerless adhesion is developed on the following substrates, subject to preparation and a site adhesion trial where the substrate is unfamiliar:

- Concrete, masonry, brickwork and blockwork.
- Cement render and cement plaster systems.
- Fibre cement sheeting, including wet-area grades.
- Aluminium, copper, brass and zinc.
- Stainless, mild and galvanised steel.
- Glass and ceramic tile.
- Glass reinforced plastics.
- Butyl rubber products — chase sealing.
- Timber, particleboard, hardboard and plywood — unpainted only, refer to Limitations.

Surface Preparation

Good preparation is essential and governs the service life of the joint. Allow all preparatory work to dry or cure fully before sealing.

- Joint faces must be structurally sound, clean, dry and free of oils, grease, wax, curing compounds, release agents, laitance, coatings, adhesives, loose particles, rust, paint and efflorescence.
- Remove protrusions and sharp edges that could puncture or locally thin the sealant bead.
- Reinstate voids, blowholes and spalled arrises with a high-strength non-shrink mortar and allow to cure. Structural repairs are carried out with the FORSPEC epoxy crack repair range — PROBOND 1100, CRACK PRO 1200PS or CRACKLOCK E400L.
- Confirm that all substrates, including screeds and renders, are solid and not friable. The joint faces must be strong enough to carry the stresses the sealant transmits during movement.
- Where a detergent wash has been used, rinse thoroughly with clean water and allow the joint to dry completely — no dampness or residual moisture.
- Mask both arrises where a precise line is required.

Priming

ACTFLEX MS PRO bonds without primer to most sound, clean, dry substrates. Prime where the conditions below apply, and never allow primer to pool in the base of the joint.

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Priming (continued)

CONDITION	PRIMER	COATS
Internal, dry surfaces	ACTFLEX SUPERPRIME 008	1
Dense, smooth or non-porous surfaces including metal and glass	ACTFLEX SUPERPRIME 008	1
Timber and PVC	ACTFLEX SUPERPRIME 008	1
External surfaces, or substrates carrying moisture	ACTFLEX EP250	1 as primer; 2 for moisture control

Prepare, mix and apply the selected primer strictly in accordance with its current Technical Data Sheet. Allow the primer to reach the condition its TDS requires before sealing. Maximum recoat window: seal within 24 hours of the primer reaching initial touch dry — where exceeded, re-prime.

Joint Design

ACTFLEX MS PRO is designed for joints between 5 mm and 35 mm wide. Design all moving joints to a width-to-depth ratio of 2:1, governed by the following minimum depths:

- Minimum sealant depth of 5 mm at every point along the joint.
- Minimum bonding depth of 5 mm against metals, glass and other non-porous surfaces with sound joint faces.
- Minimum bonding depth of 8 mm against masonry and other porous surfaces, and against non-porous surfaces with deteriorated joint faces.
- Shear joints: minimum width-to-depth ratio of 1:2, up to a maximum of 1:1.
- Joint width is set so that total movement does not exceed ±25% of the designed joint width.

Backing Rod and Bond Breaker

- Install closed-cell or bi-cellular polyethylene backing rod to set the sealant depth and force a two-sided bond. Select rod approximately 25% larger than the joint width so it compresses into place without twisting.
- Roll the rod to the required depth with a blunt tool that will not puncture it — a punctured closed-cell rod outgasses and bubbles the bead.
- Where joint depth cannot accept a rod, apply polyethylene bond-breaker tape to the joint base.
- Three-sided adhesion is never permitted. A sealant bonded to the joint base cannot extend and will fail cohesively at the first movement cycle.
- Install rod or bond breaker after priming, never before.

Cove Fillet Detailing — FORSPEC Membrane Systems

Within FORSPEC waterproofing systems, ACTFLEX MS PRO forms the cove fillet at junctions before the membrane is applied. The sequence is fixed:

- Complete surface preparation and apply the specified primer. Allow the primer to cure fully — the fillet is never applied to wet or tacky primer.
- Apply a continuous bead of ACTFLEX MS PRO to the internal corner at all wall/floor junctions, wall/wall junctions, changes of plane, drains and penetrations.
- Tool to a concave fillet of 15 mm x 15 mm for external applications, in accordance with AS 4654.1 and AS 4654.2. Internal wet-area fillets are tooled to the dimension nominated in the project specification.
- Work the bead firmly into the corner so both legs are in full contact with the substrate, with no voids, air pockets or hollow sections behind the fillet.
- Allow the fillet to skin and develop sufficient strength before membrane application — typically 24 hours at 25°C and 50% RH for a 15 mm fillet. Do not disturb.
- Apply the membrane over the cured fillet, carrying the coats a minimum of 50 mm onto each plane beyond the fillet so the detail is fully encapsulated.
- Where reinforcement is specified, embed the FORSPEC reinforcement bandage centrally into the wet first membrane coat over the cured fillet, free of creases and air pockets, and encapsulate with the second coat.
- ACTFLEX 75FC is used in place of ACTFLEX MS PRO only within solvent-based polyurethane systems — ACTFLEX 929 SL and ACTFLEX 929 HV.

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Application

- Cut the sausage foil at one end and load into a sausage gun fitted with the correct nozzle plate.
- Trim the nozzle to the required bead size at 45°, slightly under the joint width so the bead is forced against both faces.
- Extrude with steady, continuous pressure, keeping the nozzle ahead of the bead so the sealant is pushed into the joint rather than laid on top of it.
- Maintain full contact with both joint faces and the backing rod. Avoid entrapping air.
- Wide joints may require multiple passes to guarantee full contact to both faces and the base.
- Fill in one continuous operation per joint run wherever practical; where a run is interrupted, restart hard against the finished end and tool through the junction.
- Checks: bead in full contact with both faces; no voids or air pockets; correct depth confirmed against the rod; concave profile achieved; no three-sided adhesion.

Tooling and Finishing

- Tool the bead within the tack-free time — 15 minutes at 25°C and 50% RH — and sooner in warm or windy conditions.
- Tool with firm pressure to a concave profile, driving the sealant against both joint faces.
- Use a dry tool or clean water. Never use detergent, soap solution or solvent as a tooling agent — each can contaminate the bond line and impair adhesion.
- Remove masking tape immediately after tooling while the sealant remains pliable, pulling back on itself at a shallow angle.

Consumption, Coverage and Yield

A 600 mL sausage yields, in linear metres: 600 ÷ (joint width in mm × joint depth in mm). For a triangular cove fillet, the cross-section is half the product of the two legs, so a 15 mm x 15 mm fillet consumes 112.5 mL per linear metre.

JOINT OR DETAIL	CROSS-SECTION	LINEAR METRES PER 600 ML SAUSAGE
5 mm x 5 mm	25 mm^2	24.0 m
10 mm x 5 mm	50 mm^2	12.0 m
10 mm x 10 mm	100 mm^2	6.0 m
15 mm x 8 mm	120 mm^2	5.0 m
20 mm x 10 mm	200 mm^2	3.0 m
25 mm x 12 mm	300 mm^2	2.0 m
30 mm x 15 mm	450 mm^2	1.3 m
35 mm x 17 mm	595 mm^2	1.0 m
15 mm x 15 mm cove fillet (triangular)	112.5 mm^2	5.3 m

Figures are theoretical and exclude wastage, nozzle purge and tooling losses. Allow 10–15% for site conditions. Coverage varies with joint tolerance and workmanship; the specified joint dimensions control acceptance.

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Cure and Service

- Tack-free in 15 minutes at 25°C and 50% RH. Protect from dust and traffic until tack-free.
- Cure rate approximately 2.0 mm per day at 25°C and 50% RH, developing from the surface inward. A 10 mm bead reaches full cure in approximately 5 days.
- Curing is moisture-dependent — low humidity and low temperature extend cure; confined joints with limited air movement cure more slowly.
- Protect from rain and standing water until tack-free.
- Service temperature range −10°C to +65°C once fully cured.

Overpainting

ACTFLEX MS PRO accepts water-based and multi-component coatings once fully cured. As with all elastomeric sealants, coating a moving joint carries consequences: the coating film reduces the effective movement accommodation of the detail, and over time may exhibit dirt pick-up, discolouration or cracking over the bead. Trial the intended coating over a cured sample before adopting it across a project, and never coat a joint that is expected to work at or near its full movement capability.

Clean Up

Remove excess uncured sealant immediately and clean tools and equipment with a solvent permitted by the current Safety Data Sheet, observing all handling and ventilation requirements stated there. Once cured, ACTFLEX MS PRO can only be removed mechanically. Do not discharge product, wash water or solvent into drains, soil or waterways.

Container and Waste Disposal

Allow residues to cure fully before disposal as construction waste. Uncured sealant, solvent and wash water are never discharged to sewer, drains, soil or waterways. Do not seal or stopper containers being decontaminated. Empty sausages and cartons 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 MS PRO and primers used, joint widths and depths achieved, backing rod type and size, primer applied and its cure time, fillet dimensions where applicable, application dates and ambient conditions, and detail inspections, as part of the project quality assurance records. The specified joint dimensions and fillet size are the acceptance criteria and must be verifiable from the records.

Storage

Store in original, unopened and undamaged packaging in cool, dry conditions between 10°C and 25°C, protected from direct sunlight and moisture. Relative humidity in storage should remain below 50%. Do not transport or store above 28°C or above 80% relative humidity — shelf life is directly related to storage temperature and humidity. Shelf life: 12 months from the date of manufacture when stored as specified.

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Safety Precautions and First Aid

ACTFLEX MS PRO is classified in accordance with its current Safety Data Sheet (Chemwatch 5689-13) and may cause skin and eye irritation. When handling, do not eat, drink or smoke. Use in well-ventilated areas, keep away from all sources of ignition, and wear chemical-resistant gloves, protective clothing, safety footwear and protective eyewear, with respiratory protection where the SDS and workplace risk assessment require. Observe good industrial hygiene. Change soiled work clothing immediately and wash hands 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. 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 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 MS PRO 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 26/08/2026 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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