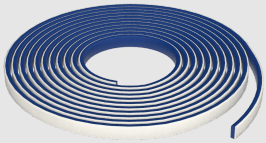
PRESWELL HYDROPHILIC WATERSTOP.



Technical Data Sheet | **Vulcanised Hydrophilic Polymer-Rubber Expansion Strip, Self-Adhesive Backed** | **Issue date: 28 October 2026**

Description

PRESWELL is a vulcanised polymer-rubber hydrophilic expansion strip engineered to seal concrete construction joints from within. Manufactured from natural rubber with hydrophilic polymer additives — sodium polyacrylate, plasticisers, viscosifiers and anti-ageing agents — and brought to controlled vulcanisation, it delivers predictable swelling, genuine recovery expansion and long-term durability rather than the uncontrolled bulk swell of unvulcanised bentonite-based products.

On contact with water the strip expands to 400–500% of its original volume, generating a compression seal against the surrounding concrete that tightens as head increases. Controlled swelling is the critical engineering property: the strip will not burst or damage fresh concrete, and it retains expansion capability through repeated wet and dry cycles without the elastic fatigue that defeats over-compressed seals. High tensile strength prevents tearing during installation, and the factory self-adhesive backing fixes it in position without mechanical anchors. This is a polymer-based system only.

Advantages

- Expands to 400–500% of original volume on water contact, forming a compression seal against the concrete.
- Controlled swelling — will not burst or damage fresh concrete.
- Maintains expansion capability through repeated wet and dry cycles.
- Genuine recovery expansion performance after compression — retains at least 300% expansion after cycling.
- Eliminates elastic fatigue caused by excessive compression.
- High tensile strength prevents tearing during installation.
- Smaller cross-section with uncompromised swelling capacity — fits tighter reinforcement congestion.
- Superior resistance to groundwater chemicals and salts.
- Suitable for high hydrostatic pressure applications when correctly installed.
- Factory self-adhesive backing — no mechanical anchors required.

Uses

- Concrete construction joints in below-ground and water-retaining structures.
- Wall-to-slab and slab-to-slab cold joints.
- Light construction joints through to deep structural joints, by profile selection.
- Heavy-duty retaining walls.
- High-movement cold joints.
- Large construction joints in raft slabs and tank bases.
- Pipe and service penetrations through concrete.
- Precast panel joints and lift pit construction joints.

Compliance Status

No accredited certificate is currently held on file for PRESWELL. Performance values are published against their stated international test standard as typical R&D characteristic values. Hydrostatic performance is dependent on joint design, concrete cover and installation quality and is the design responsibility of the project engineer.

STANDARD / TEST	STATUS	REFERENCE
ISO 868 — hardness	Manufacturer data	Forspec R&D *
ISO 37 — tensile and elongation	Manufacturer data	Forspec R&D *
Volume expansion and expansion after cycling	Internal test method — accredited verification outstanding	Forspec R&D *

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Compliance Status (continued)

STANDARD / TEST	STATUS	REFERENCE
Low temperature flexibility	Internal test method — accredited verification outstanding	Forspec R&D *
AS/NZS 4020 — potable water contact	No certificate held — no claim made	Not applicable

Technical Data

Certified values are stated against their governing report. All other values are typical R&D characteristic values and are asterisked.

PROPERTY	REQUIREMENT	TEST STANDARD
Product type	Vulcanised hydrophilic polymer-rubber expansion strip	—
Hardness	45 ± 10 Shore A	ISO 868 *
Tensile strength	≥ 3.0 MPa	ISO 37 *
Elongation at break	≥ 350%	ISO 37 *
Volume expansion	≥ 400% — 1 to 5 times original volume	Internal test *
Tensile strength after repeated immersion	≥ 2.0 MPa	ISO 37 *
Elongation after repeated immersion	≥ 250%	ISO 37 *
Expansion after cycling	≥ 300%	Internal test *
Low temperature flexibility (−20°C, 2 hours)	No cracking	Internal test *
Chemical resistance	Resistant to groundwater salts	*
Hydrostatic resistance	Suitable for high pressure when correctly installed	*
Colours	Red, blue or black	—
Backing	Factory-applied self-adhesive	—
Standard supply	10 m roll — 10 mm × 20 mm profile standard	—
Shelf life	24 months, unopened, stored dry and shaded *	*

PRESWELL is a polymer-based hydrophilic system. Profile selection governs performance — size the strip to the joint duty using the profile table below, not to the smallest section that will fit.

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

Coverage and Yield

PROFILE TYPE	WIDTH × THICKNESS	TYPICAL USE
2007	20 × 7 mm	Light construction joints
2010	20 × 10 mm	Standard wall and slab joints — standard supply
2015	20 × 15 mm	Increased joint tolerance
2020	20 × 20 mm	High-movement cold joints
2025	20 × 25 mm	Heavy-duty retaining walls
2030	20 × 30 mm	Deep structural joints
4040	40 × 40 mm	Large construction joints

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Coverage and Yield (continued)

Supplied in 10 m rolls; other sizes available on request. Linear demand is the measured joint length plus an allowance for 15 mm side-by-side joins, corners and penetrations — take off at measured length plus 10%. Allow ACTFLEX PROSWELL for every join, corner and penetration, for a bead along both edges of the strip on smooth concrete, and for a bedding bead along the full joint run on rough or uneven concrete — refer to the ACTFLEX PROSWELL TDS for consumption. * Typical R&D characteristic values, not for engineering design without written FORSPEC confirmation.

Limitations

- Not a waterproofing membrane — PRESWELL seals a joint within a structure; it does not waterproof an area.
- Requires full concrete confinement on all sides to develop the compression seal — the strip must not be installed where it can swell freely into a void.
- Minimum concrete cover must be maintained on both sides of the strip; insufficient cover allows the swelling pressure to spall the concrete edge.
- Not for use in expansion or movement joints — PRESWELL seals construction and cold joints only.
- Must not be exposed to water, rain or standing water before the concrete is poured — premature swelling consumes the expansion capacity and the strip will not re-seal at full performance.
- Do not stretch the strip during installation.
- Do not install over dust, laitance, standing water, oil, grease, curing compounds or release agents.
- Joint design, concrete cover and hydrostatic duty must be determined by the project engineer.
- Where the joint is subject to active leakage, stop the flow with ACTFLEX HYDROPLUG and complete the detail with ACTFLEX FLEXIPLUG before proceeding.

Surface Preparation

- Confirm the concrete surface at the joint is clean, sound, dry and free of laitance, dust, oil, grease, curing compounds, release agents and standing water.
- Remove all loose and friable material and grind back any honeycombing or protruding aggregate. Where the joint face remains rough or uneven, bed the strip on ACTFLEX PROSWELL — refer to Application and Film Build.
- Reinstate blowholes, voids and spalls at the joint face with a FORSPEC concrete repair system such as FORBUILD 100 or FORCRETE 100, finished flush and cured.
- Confirm the joint face is dry — the self-adhesive backing will not fix to a damp surface.
- Confirm the required concrete cover is achievable on both sides of the strip against the reinforcement layout before fixing.
- Vacuum or blow clean immediately before installation.

Application and Film Build

- Select the profile from the table above according to the joint duty — do not default to the smallest section that fits.
- Cut the strip to length with a clean blade, allowing for continuous runs around corners.
- Smooth, even concrete — peel the release liner and press the strip firmly onto the prepared joint face, centring it so that concrete cover is equal and sufficient on both sides. Once the strip is fixed, run a bead of ACTFLEX PROSWELL along both edges of the strip, sealing it to the concrete on each side.
- Rough or uneven concrete — run a continuous bead of ACTFLEX PROSWELL along the joint line first. Peel the release liner and press the strip firmly into the wet PROSWELL, centred for equal concrete cover on both sides, so the sealant fills the irregularities beneath the strip and leaves no path under it.
- Roll or press the full length into firm, continuous contact — a strip that lifts will float during the pour.
- Join lengths side by side — lay the two ends alongside each other in full contact with a minimum 15 mm side-by-side lap, and seal the join with ACTFLEX PROSWELL along the full length of the lap. Do not butt the ends together and do not stack one strip on top of the other, which creates a hard spot that the concrete cannot close around.
- Carry the strip continuously around corners and past penetrations without breaks, and seal every join, corner and termination at a penetration with ACTFLEX PROSWELL.
- Protect the installed strip from rain, standing water and site water until the pour — premature swelling consumes the expansion capacity.
- Allow the ACTFLEX PROSWELL to cure before the pour as set out in its TDS — skin time 65 minutes, then from 8 hours before hand-placed concrete cover and from 24 hours before a large-scale pour (at 25°C, 50% RH). Do not pour early — uncured sealant will be displaced by the concrete.

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Application and Film Build (continued)

- Confirm the strip is in position, fully adhered and dry, and that the ACTFLEX PROSWELL has reached its cure time, immediately before concrete is placed.
- Place and compact the concrete carefully around the strip to achieve full encasement with no voids.

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
Adhesion of self-adhesive backing	Immediate on pressing — no cure period *
ACTFLEX PROSWELL skin time	65 minutes — refer to the ACTFLEX PROSWELL TDS
ACTFLEX PROSWELL cure before hand-placed concrete cover	From 8 hours
ACTFLEX PROSWELL cure before a large-scale pour	From 24 hours
Protection from water before the pour	Until concrete is placed — keep dry throughout
Concrete placement	Once the strip is confirmed in position, adhered and dry, and the ACTFLEX PROSWELL cure time is met
Swelling on first water contact	Begins on contact; full expansion develops progressively *
Full seal development	After the concrete has reached design strength and the joint is wetted *

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

Clean Up

Remove offcuts, release liner and packaging immediately and keep the work area clear. Tools require no solvent cleaning. Where a primer, adhesive or liquid membrane has been used alongside the sheet, clean tools according to that product Technical Data Sheet while the material remains wet.

Container and Waste Disposal

Dispose of offcuts, release liner, cores and packaging as general construction waste in accordance with State and local requirements. Do not discharge primer or membrane residues into drains, soil or waterways. Refer to Section 13 of the SDS of any primer or liquid product used with the sheet.

Quality Records

Record the batch numbers and roll identifiers of all PRESWELL used, the profile type selected against the joint duty, joint locations and lengths, concrete cover achieved on both sides, substrate preparation and dryness confirmation, adhesion and continuity of the installed strip, ACTFLEX PROSWELL batch numbers, the sequence used (strip first, or sealant first on rough concrete) and the PROSWELL cure time before the pour, protection method and duration before the pour, pre-pour inspection sign-off, and the date of concrete placement, as part of the project quality assurance records.

Storage

Store rolls flat in original packaging in a cool, dry, covered environment, protected from direct sunlight, heat and all moisture — the product is hydrophilic and will swell if it gets wet in storage. Shelf life: 24 months from the date of manufacture, unopened, when stored as specified.*

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Safety Precautions and First Aid

Refer to the current Safety Data Sheet before use. FORSPEC PRESWELL is classified as a HAZARDOUS CHEMICAL and NON-DANGEROUS GOODS under the WHS Regulations and the ADG Code, signal word DANGER — Chemwatch 9010-10. Hazard statements: H317 may cause an allergic skin reaction; H318 causes serious eye damage; H334 may cause allergy or asthma symptoms or breathing difficulties if inhaled; H350 MAY CAUSE CANCER; H411 toxic to aquatic life with long lasting effects. Chronic health hazard rating: High. Do not handle until all safety precautions have been read and understood. Additional hazards in installation arise from cutting tools, from working at height and in confined below-ground spaces, and from the primers, adhesives and membranes used alongside it. Wear protective gloves, protective clothing, eye protection and face protection. Where ventilation is inadequate, wear respiratory protection. Avoid breathing dust and fumes. Contaminated work clothing must not be allowed out of the workplace — take off contaminated clothing and wash it before reuse. Avoid release to the environment; this product is toxic to aquatic life with long lasting effects. Use a sharp blade with a cutting board and cut away from the body. Where work is below ground or in a confined space, apply the site confined-space entry procedure — test the atmosphere, provide mechanical ventilation and maintain a standby observer. Do not eat, drink or smoke when handling; wash hands before breaks and after work.

First aid — Eyes: this product causes serious eye damage. Rinse cautiously with water for several minutes; remove contact lenses if present and easy to do; continue rinsing and immediately call a POISONS INFORMATION CENTRE or doctor. Skin: wash with plenty of water and soap; if skin irritation or rash occurs, get medical advice or attention, as this product may cause an allergic skin reaction. For primer or membrane contact follow the first aid directions in that product SDS. Inhaled: remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a POISONS INFORMATION CENTRE or doctor — this product may cause allergy or asthma symptoms or breathing difficulties if inhaled. Swallowed: rinse mouth and seek medical advice. Cuts from cutting tools: clean the wound, apply a dressing and seek medical attention where the wound is deep or contaminated. 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 PRESWELL HYDROPHILIC WATERSTOP 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

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Data Sheet Currency (continued)

issued on 28/10/2026 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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2. Suitability and user responsibility. Substrates, site conditions, workmanship and conditions of use are beyond Forspec Protective Coatings' control. No representation or warranty is made as to the suitability of the product for any particular application. The user must determine the suitability of the product for the intended use by their own assessment and, where appropriate, testing prior to application.

3. Currency of document. It is the responsibility of the customer and the applicator to confirm that this document and the corresponding Safety Data Sheet are the current versions, available at www.forspec.com.au. This document supersedes all previous versions.

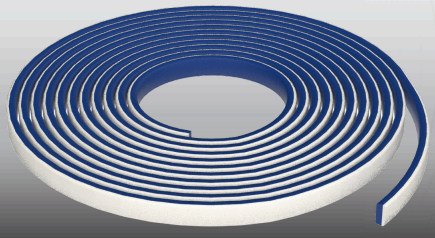
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6. Limitation of liability. To the fullest extent permitted by law: (a) all other warranties, conditions and representations, express or implied, are excluded; (b) the total liability of Forspec Protective Coatings for any claim arising out of or in connection with the supply or use of the product is limited, at its election, to the replacement of the product, the supply of an equivalent product, or the refund of the purchase price paid; and (c) Forspec Protective Coatings will not be liable for any indirect, special or consequential loss, including loss of profits, arising from the use of, or inability to use, the product.

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