ACTFLEX 500 NP PRIMER.



Technical Data Sheet | **Low-VOC High-Adhesion Primer for Non-Porous, Dense and Smooth Substrates** | **Issue date: 12 November 2026**

Description

ACTFLEX 500 NP PRIMER is a certified low-VOC primer engineered to develop high adhesion on the substrates that defeat conventional absorbing primers — metals, glazed surfaces, glass, rigid plastics, existing tiles and dense, smooth or burnished concrete. It builds a tenacious, non-tacky key on surfaces that offer no porosity to grip, and it does so without acid etching and without solvents, removing both the hazard and the programme delay those methods impose.

The viscous paste consistency holds on vertical and overhead work as readily as on floors, and the cured film has very low dirt retention so a primed surface left overnight does not have to be re-cleaned. It is directly overcoatable with FORSPEC membranes, enhanced adhesives and mortars, and for floor levelling compounds and highly absorbent substrates it may be diluted 1:1 by volume with water — a dilution expressly approved for this product. Suitable for interior and exterior use.

Advantages

- Certified low VOC — 32 g/L (CETEC certificate P26050125), half the GBCA Green Star limit for primers; a low-odour alternative to solvent-based non-porous primers.
- Develops high adhesion on metals, plastics, glazed, smooth and dense substrates without acid etching.
- Viscous paste consistency holds on vertical and overhead surfaces.
- Very low dirt retention with a non-tacky cured finish.
- Directly overcoatable with FORSPEC membranes, enhanced adhesives and mortars.
- Fast drying — 30–45 minutes at 23°C and 50% RH.
- Approved for dilution 1:1 by volume with water for floor levelling compounds and highly absorbent substrates.
- Suitable for both interior and exterior use.

Uses

- Priming beneath FORSPEC membrane coatings, adhesives and mortars on non-porous substrates.
- Metals — galvanised iron, zincalume, aluminium, stainless steel, copper, brass-treated steel and pre-finished coated steel sheeting.
- Precast and tilt-up concrete, and glass-reinforced concrete.
- Existing ceramic tiles, tiles and natural stone.
- Brickwork, clay and concrete.
- Compressed cement sheeting and plasterboard surfaces.
- Fibre cement external and internal flooring sheet.
- Hardwood, dense timber, marine plywood and timber sheet surfaces.
- Glass and rigid plastic surfaces.
- Polymer mortars, synthetic mortars and smooth self-levelling compounds.
- Existing water-based paintwork and acrylic membrane coatings.
- General surfaces where absorbing primers are unsuitable or enhanced adhesion is required.

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Compliance Status

ACTFLEX 500 NP PRIMER holds a CETEC VOC content certificate (below). Other performance values are typical FORSPEC R&D values. System compliance is established by the certified FORSPEC membrane applied over the primer.

STANDARD / TEST	STATUS	REFERENCE
AS/NZS 4858 — wet area membranes	Not applicable — the primer is a system component, not a membrane	Compliance is established by the membrane system
Adhesion performance on non-porous substrates	FORSPEC R&D result	FORSPEC R&D *
VOC content (ASTM D3960)	Certified - 32 g/L, below the 65 g/L GBCA Green Star Design & As Built V1.3-13.1.1B and Interiors V1.3-12.1.1B limit for primers, sealers and prep coats	CETEC certificate P26050125 (tested by FORAY, NATA 1231), valid to 29/05/2031

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	Low-VOC, high-adhesion non-porous primer	—
Appearance	Viscous paste	—
Density	1.35	*
Viscosity	5,000 mPa·s	*
Non-volatile content	Approx. 97% - derived from the VOC certificate as (density - VOC) / density; an upper bound	Derived from CETEC P26050125 *
Coats	1	—
Coverage	6–10 m^2/L	—
Consumption	Approx. 0.10–0.17 L/m^2	*
Drying time (at 23°C, 50% RH)	30–45 minutes †	—
Approved dilution	1:1 by volume with water, for floor levelling compounds and highly absorbent substrates only	—
Service temperature	−10°C to +65°C	—
Packaging	To current pack schedule *	*
Shelf life	12 months, unopened, stored frost-free *	*

† Drying time is stated at 23°C and 50% RH in the source data and is to be restated at 25°C and 50% RH — refer to the Change Register.

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

Coverage and Yield

MEASURE	VALUE	BASIS
Coverage per litre — neat	6–10 m^2 *	Non-porous substrates
Consumption per coat — neat	Approx. 0.10–0.17 L/m^2 *	At 6–10 m^2/L
Coverage per litre — diluted 1:1	12–20 m^2 of diluted product *	Absorbent substrates and levelling compounds

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Coverage and Yield (continued)

MEASURE	VALUE	BASIS
Coverage — 4 L pack	Approx. 24–40 m² *	At 6–10 m²/L neat
Coverage — 15 L pack	Approx. 90–150 m² *	At 6–10 m²/L neat

Coverage varies with substrate profile and absorbency. 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 and not a moisture barrier.
- Not suitable for areas subject to rising moisture or negative hydrostatic pressure.
- Not designed for use as a trafficable or exposed surface finish.
- Not appropriate where solvent-based materials — adhesives, coatings or paints — will be applied directly over the primed surface. Specify ACTFLEX SUPERBOND 007 or ACTFLEX 700 PU PRIMER for solvent-based systems.
- Adhesion to PVC and aluminium may be limited — sanding may be required and a trial area is mandatory.
- Do not dilute other than the approved 1:1 water dilution for floor levelling compounds and highly absorbent substrates.
- Must be overcoated with a suitable under-tile membrane system when tiling over existing tiles in internal or external wet areas.
- Do not apply over damp substrates, water residue or persistent dampness.
- Ensure the primer is fully dry before applying subsequent membranes, coatings or adhesives.

Surface Preparation

- Confirm the surface is clean, sound and free of dust, dirt, oil, grease, curing compounds, release agents and any degraded or unsuitable old coatings.
- Mechanically prepare metal and plastic surfaces by sanding or abrading to roughen the surface and enhance bond strength — this is mandatory on PVC and aluminium.
- Remove all loose debris and dust thoroughly before application.
- Confirm all surfaces are completely dry with no water residue or persistent dampness.
- Where tiling over existing tiles, confirm every tile is sound and firmly bonded — replace or reinstate any drummy or loose tile before priming.
- Vacuum or blow clean immediately before priming.

Application and Film Build

- Stir the product thoroughly before use.
- Apply by brush or long-nap roller in an even, continuous film at 6–10 m² per litre over the entire surface to be primed.
- For floor levelling compounds and highly absorbent substrates, dilute 1:1 by volume with water before application — this dilution is approved for this product only.
- Work to full coverage across all edges, junctions and transitions.
- Avoid over-application and puddling.
- Allow the primer to dry completely before applying subsequent FORSPEC products.
- Inspect for missed areas, pinholes and glossy puddled zones before overcoating.

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
Drying — standard	30–45 minutes at 23°C †
Drying — low temperature or high humidity	Extended — allow additional time and confirm dry on site

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Drying, Curing and Testing Times (continued)

STAGE (AT 25°C, 50% RH)	TIME
Overcoating with FORSPEC membranes, coatings and adhesives	Once completely dry
Protection from water and traffic	Until completely dry

† Restated from the 23°C source condition — refer to the Change Register. Drying times vary with substrate type, porosity and environmental conditions.

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

Clean Up

Remove excess uncured product immediately and clean tools and equipment with clean water while the product remains wet. Cured product can only be removed mechanically. Allow washings to settle, decant and dispose of residues in accordance with the relevant State or Territory environment protection legislation. Do not discharge wash water into drains, soil or waterways.

Container and Waste Disposal

Allow residues to fully cure before disposal as construction waste in accordance with State and local requirements. Empty containers are disposed of or recycled per local council requirements. Refer to Section 13 of the SDS for detailed disposal requirements.

Quality Records

Record the batch numbers of all ACTFLEX 500 NP PRIMER used, substrate type and mechanical preparation method, trial area results on plastics and aluminium, dilution used where applicable, coverage achieved, application date and conditions, drying confirmation, and the interval between priming and overcoating, as part of the project quality assurance records.

Storage

Store sealed in original, unopened packaging in cool, dry conditions, protected from frost, heat and direct sunlight — the product must never freeze. Shelf life: 12 months from the date of manufacture when stored as specified.*

Safety Precautions and First Aid

Refer to the current Safety Data Sheet before use. ACTFLEX 500 NP PRIMER is low-VOC; the uncured product may cause eye and skin irritation. Wear protective gloves, protective clothing and eye protection. Use in well-ventilated areas. 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: wash out immediately with water and seek medical attention if irritation continues. Skin: flush with running water and soap; remove contaminated clothing. Inhaled: remove to fresh air. Swallowed: rinse mouth and 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 500 NP 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,

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Warranty (continued)

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 12/11/2026 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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