

ACTFLEX 500 NP PRIMER.



Technical Data Sheet

Water Non-Porous Primer

05/02/2025

Description

ACTFLEX 500 NP PRIMER is a solvent-free primer uniquely formulated to enhance adhesion on metals, non-porous, dense, and smooth substrates. It is ideal for both vertical and horizontal applications, providing high adhesion without the need for etching or solvents. This primer is perfectly suited for the application of FORSPEC membrane coatings, adhesives, and mortars, facilitating easy bonding to challenging substrates.

Advantages

- Solvent-free, offering a safer alternative to solvent-based primers
- Adheres to various surfaces including metal, plastic, glazed, smooth, and dense substrates
- Exceptional adhesion properties
- Easy to apply
- Very low dirt retention, non-tacky finish
- Suitable for both interior and exterior use
- Can be directly overlaid with FORSPEC membranes or enhanced adhesives and mortars
- Saves time, is user-friendly, and environmentally safe

Substrate Adhesion

- Metals such as galvanized iron, zincalume, aluminum, stainless steel, copper, brass-treated steel, Colorbond sheeting
- Precast and tilt-up concrete, glass-reinforced concrete
- Hardwood and dense timber surfaces
- Existing ceramic tiles, tiles, and natural stone
- Brickwork (clay and concrete)
- Compressed cement sheeting, plasterboard surfaces
- James Hardie™ Scyon™ Secura™ external/internal flooring
- Polymer mortars, synthetic mortars, smooth self-leveling compounds
- Marine plywood and timber sheet surfaces
- Glass
- Rigid plastic surfaces
- Existing water-based paintwork and acrylic membrane coatings
- General surfaces where absorbing primers are unsuitable or where enhanced adhesion is needed

ACTFLEX 500 NP PRIMER Properties

Appearance	Viscous Paste	Non-volatile contents (%)	99
Density	1.35	Service temperature	-10°C to +65°C
Drying Time	30-45 mins @ 23°C & 50% RH	Coverage	6-10sqm per Litre
Viscous	5000 MPas		

Preparation

- **Clean and Sound Surface:** Ensure the surface to be primed is clean, sound, and free of dust, dirt, oil, grease, curing compounds, release agents, and any degraded or unsuitable old coatings.
- **Mechanical Preparation:** Metal and plastic surfaces may need mechanical preparation, such as sanding, to roughen the surface and enhance bond strength for the ACTFLEX 500 NP Primer.
- **Remove Debris:** All loose debris and dust must be thoroughly removed before application.
- **Dry Surface:** Ensure all surfaces are completely dry prior to application, with no water residue or persistent dampness.

Application

- **Preparation:** Stir the product thoroughly before use.
- **Application:** Apply the primer using a brush or long nap roller, ensuring an even coverage at a rate of 6m² to 10m² per liter over the entire surface to be primed.
- **Dilution for Absorbent Substrates:** For floor leveling compounds and highly absorbent substrates, dilute ACTFLEX 500 NP Primer with water at a 1:1 ratio by volume.

Drying Time

- **Standard Drying Time:** Allow approximately 30-45 minutes for drying at 23°C and 50% relative humidity. Ensure ACTFLEX 500 NP Primer is completely dry before applying subsequent FORSPEC products.
- **Variable Conditions:** Drying times will vary based on substrate type, substrate porosity, and environmental conditions. Allow additional drying time for lower temperatures or higher relative humidity.

Limitations

- Not suitable for areas with rising moisture or negative hydrostatic pressure.
- Not designed for use as a trafficable or exposed surface finish.
- Not appropriate for applications where solvent-based materials will be directly applied over the primer surface (e.g., adhesives, coatings, paints).
- Adhesion to PVC and aluminum may be limited. Sanding may be required.
- Ensure the primer is dry before applying subsequent membranes, coatings, or adhesives.
- Must be overcoated with a suitable under-tile membrane system when tiling over existing tiles in internal/external wet areas.
- Safety Data Sheet (SDS) available upon request.
- For additional information, contact FORSPEC's technical department.

Storage and Shelf Life

- 10 Months when stored in the original, unopened/undamaged containers, in cool dry conditions and protected from sunlight at temperatures between 10°C and 25°C. The shelf life of polyurethane sealant is related to the temperature and humidity of the environment.
- The recommended storage temperature is 10-25°C, humidity is <50% R.H.
- Do not transportation or store in areas with temperature is over 28°C or the humidity is over 80% R.H.

Packaging

- 15L PALE, 5L PALE

Cleaning

Clean up immediately while still wet. Wipe down with solvent to clean tools & equipment. Once dry, is difficult to remove and mechanical means may be necessary. No.1. Observe all OH&S and MSDS information pertaining to safe usage and handling of solvents.

DO NOT discharge product or water from cleaning into sewer or waterways.

DO NOT touch the spill material.

Safety - When handling DO NOT eat, drink or smoke

ACTFLEX 500 NP PRIMER is hazardous and may cause skin and/or eye irritations. Use for intended purpose only. Observe good industrial hygiene. Keep all sources of ignition away. Always use in a well-ventilated area and wear Personal Protection Equipment (PPE). Change soiled work clothes and wash hands before breaks and after finishing work. In case of eye contact, rinse with plenty of water: If inhaled, remove to fresh air, if discomfort persists, if any breathing difficulties occur or if swallowed (do NOT induce vomiting), immediately

contact Doctor or Poisons Information centre and seek medical attention. In emergency, contact any Poisons Information Centre (phone 13 11 26 within Australia) or 0800 764 766 (NZ). or a doctor for advice. IN TRANSPORT EMERGENCY DIAL 000 – POLICE-FIRE BRIGADE. Local regulations as well as health and safety advice on packaging labels must be observed. For more information, please download a copy of the SDS from www.thewaterproofingshop.com.au.

KEEP OUT OF REACH OF CHILDREN.

DO NOT allow wash water from cleaning or process equipment to enter drains.

DO NOT discharge into sewer or waterways.

DO NOT seal or stopper drums being decontaminated as CO2 gas is generated and may pressurize containers.

Data Sheet

This Technical Data Sheet (TDS) and Material Safety Data Sheet (SDS) are subject to revision as necessary to ensure compliance with relevant Australian Standards and incorporate technological advancements. It is crucial to read the most current versions of the SDS and TDS before use, as application and performance data may be updated. For the latest technical information, please contact Forspec Protective Coatings at (02) 8021 3517 or email info@forspec.com.au to request a copy. The information provided is representative but does not serve as a comprehensive specification. For specific projects, we recommend consulting directly with the company for tailored specifications..

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