ACTFLEX 101 UV.





Technical Data Sheet

CO POLYMER UV STABLE WATERPROOFING MEMBRANE

23/01/2025

Description

ACTFLEX 101 UV is a Class III co-polymer waterproofing membrane designed for exposed wet areas requiring long-term UV protection. With exceptional UV stability and durability, it safeguards structures against water damage and harsh weather. Ideal for facades, it can be tinted to nearly any pastel color, offering both aesthetic flexibility and reliable performance for residential and commercial applications.

Roller, Brush, or Spray Grade	•	Colour Grey or White	 Packaging (Weight) 15L (20kg) 	•
Standards Compliance	•	Suitable f Applicatio	or the Following	•
 Meets the requirements of AS4654.1 – "W membranes for external above-ground us LOW VOC - Meets Green Building Council Greenstar requirements IEQ-13, IEQ-11 Classified as Non- Hazardous and Non-Fla 	/aterproofing se". of Australia ammable.	 Exposed roof Wall facades Under Pedesta Box gutters Exposed podia 	tops al Systems ums	

- Classified as Non- Hazardous and Non-Flammable.
- Parapet walls.

Can Be Used Over the Following Substrates

- Priming required on all substrates.
- Fibre Cement Sheets Walls (min. 6mm). Wet area grade only.
- Concrete Cured for min. 28 days and left with a wood trowel finish. Before 28 days 2 coats of ACTFLEX EP 250 is required
- Renders and Screeds Cured for min. 7 days and left with a wood trowel finish.
- Compressed Fibre Cement (min. 15mm). Wet area grade only.
- Advantages
- Provides excellent resistance to UV, weathering, and CO2.
- Class 111 highly flexible, tough, and durable.
- Meets the 'Green Star' environmental criteria. Low VOC levels. Low odour.
- ACTFLEX 101 UV is classified as non-hazardous and non-flammable.
- Does not re-emulsify after proper curing.
- Does not embrittle with age.

FORSPEC **PROTECTIVE COATINGS**

- Suitable to use in confined spaces.
- Meets the criteria AS4564.1 2012

- Plasterboard walls (min. 10mm). Wet area grade only.
- Brickwork, block work, masonry, asbestos, sycon, cement, timber, metal, and PVC surfaces (with primer).
- We do not recommend applications of ACTFLEX 101 UV be applied on particle board, platform floor sheeting, yellow tongue, or chipboard surfaces as they are not a suitable substrate for wet areas. This should be replaced with Wet Grade CFC sheeting.
- Compatible bonding properties with most screeds and renders.
- Excellent adhesion to primed surfaces.
- Paintable with conventional acrylic paint.
- May be tinted with up to 1% acrylic tint always consult the manufacturer before tinting.
- Once cured will accept foot traffic.
- Easy application by roller or brush.
- Excellent build properties enable application to both horizontal and vertical surfaces.

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Actflex 101 UV Properties

Form	Single-Component Vi	scous Liquid No Fatigue Cracking	Pass
Membrane Classifica	tion Class III	Tear Resistance	8-12 N/mm2
Colour	Grey, white	Recoat Time at 25°C 50% R.H	H. 6 Hours
Solids Content	65%	Tack free time at 25°C 50% l	R.H. 6 Hours
Elongation at break	>450%	Full cure time at 25°C 50% R	. H. 14 Days
Tensile Strength	1.6 MPa	Application Temperature	10-26°C
Shore Hardness	60>		

Falls to Drains

We recommend that **ACTFLEX 101 UV** be laid on floors that provide positive falls to drainage outlets to eliminate water ponding. The slope of this fall should be: External balconies, rooftops etc. 1:100 – which equates to a 10mm fall over 1m.

- Remove any protrusions from the surface that may pierce the membrane.
- Surface Condition: Ensure surfaces are structurally sound, clean, dry, and free from contaminants that hinder adhesion.
- Make good any defects such as voids, blowholes and surface imperfections using an appropriately high strength non shrink mortar.
- Ensure all applied surfaces including screeds are solid and not crumbly.
- Mix well before use.

Movement Joints

ACTFLEX 101 UV should not be applied over movement joints as the amount of movement may be more than the capability of the membrane. If joint are within 1-3mm Seal Joints with the appropriate V-TECH MS joint sealant then apply ACTFLEX 101 UV up to the edge of the joint. If joints are greater than 3mm FORSPEC expansion joint system may be needed to be used.

Cracks

- Cracks under 1mm in width Can be covered with a ACTFLEC SA BUTYL Tape or by embedding FORSPEC AT Mesh into a wet coat of ACTFLEX 101 UV – (See FORSPEC AT Mesh Reinforcement Fabric directions below).
- Cracks greater than 1mm and up to 2mm in width i.e., cracks that do not move or continue to grow, must be chased out to a minimum 2mm width, and

cleaned by vacuuming to remove all dust and residues.

- After cleaning fill all static cracks with a thick bead of ACTFLEC MS PRO. Once cured, apply FORSPEC AT Mesh as per directions below.
- Cracks greater than 2mm or subject to movement or growth use either PRONBOND 1100PS, CRACK PRO 1200PS or CRACK LOCK E400L, must be referred to the builder or engineer for structure assessment.

Priming

FORSPEC PROTECTIVE COATINGS

- Ensure primers are allowed to dry according to specified drying times before proceeding with over coating.
- Apply primers by scrubbing, rolling, or spraying onto absorbent surfaces like porous concrete or sand/cement screeds.
- This helps seal pin holes and reduces excess absorption of ACTFLEX 101 UV.

Insufficient priming could result in pin holes being visible through the waterproofing membrane.

Floor and Wall Surfaces:

- Apply 2 coats of ACTFLEX EP 250 on both floor and wall surfaces. Refer to TDS
- Metal Surfaces: apply ACTFLEX SUPER PRIME 008

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Rusty Metal:

- Remove loose rust and paint particles using wire brushing.
- Roughen any sound areas of remaining paint to establish a robust mechanical bond.
- Eliminate any loose flakes or corroded metal by chipping them away.

MS Bond Breaker/Joint Sealant/Transition Tape

- Horizontal/Vertical Junctions and Corner Junctions: 1. Seal all horizontal and vertical junctions, such as wall/floor connections, hobs/walls, and corner junctions, using a bead of 15mm X 15mm of ACTFLEX MS PRO. Refer top TDS
- 2. Drain Outlets, Screw, and Nail Heads: Thoroughly seal drain outlets, screw, and nail heads using ACTFLEX MS

PRO to prevent potential water infiltration. Ensure complete drying and curing before further steps.

Apply a coat of rust converter followed by a layer of anti-corrosive primer for comprehensive protection.

Please note: These steps are essential to ensure optimal

adhesion and performance of the ACTFLEX 101 UV

waterproofing membrane.

3. If you do not wish to use ACTFLEX MS PRO or want to add extra protection to ACTFLEX MS PRO, apply ACTFLEX SA TAPE to critical areas like drains, penetrations, and junctions before using the ACTFLEX 101 UV.

Sheeted Floors and Walls – ACTFLEX SA BUTYL TAPE (OPTION)

In applications where fibro cement floors and/or walls are used, apply a suitable ACTFLEX SA TAPE over the cured joint sealant in all corner junctions and over sheet joints. Use a pressure roller to ensure that a secure bond is made between the tape and substrate and carefully moulded into the corners.

3.

FORSPEC AT Mesh Tape Application:

- 1. For areas where changes in plane may experience slight movement or require reinforcement, apply ACTFLEX AT Mesh Tape over the cured ACTFLEX MS PRO joint sealant in all corner junctions. This is essential when using ACTFLEX 101 UV, a copolymer membrane, to ensure added durability and flexibility at the junctions.
- Apply one coat of ACTFLEX 101 UV, extending at least 2. 50mm either side of AT Mesh Tape.

Application

FORSPEC **PROTECTIVE COATINGS**

- Begin by applying a generous coat of ACTFLEX 101 UV 1. membrane over the entire surface to be waterproofed using a brush or roller. For best results, use a medium nap roller (8-12mm pile) or a 50mm long-bristle paintbrush. Apply the first coat at a wet film thickness (WFT) of 0.92mm, which will dry to a dry film thickness (DFT) of 0.6mm. The coverage rate is approximately 0.67m² per liter per coat, or 10m² per **15L container** for two coats. Allow the first coat to dry thoroughly, typically taking 4-6 hours at 23°C and 50% relative humidity.
- Once the first coat has dried, apply a second coat of ACTFLEX 101 UV, maintaining the same WFT of 0.92mm to achieve a DFT of 0.6mm. Ensure even and consistent coverage across the surface.

- Embed the AT Mesh Tape into the wet coat. Brush out any bubbles or wrinkles and ensure that a 4.
- secure bond is made between the tape and substrate and carefully moulded into the corners. Allow to set/dry.
- 3. The total application of these two coats will result in a cumulative DFT of 1.2mm, providing a durable and robust waterproofing barrier.

By following these steps meticulously, you will achieve the desired waterproofing outcome using ACTFLEX 101 UV. Always adhere to recommended dry times and film thicknesses for optimal performance.

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Repairs and Overcoating of Old FORSPEC ACTFLEX 101 UV

- 1. **Cleaning:** Begin by cleaning the surface using a mild detergent. Thoroughly rinse with clean water, ensuring the removal of all contaminants. Allow the surface to air dry completely. It's imperative that the surface is not only dry but also free from any dust or residues.
- 2. **Overlapping Membranes:** When conducting repairs or over-coating, ensure both the primer and the new membrane extend over the existing membrane by a minimum of 100mm. This overlap is essential to establish a secure and robust bond between the existing and new membranes.
- 3. Existing Membrane in Good Condition: If the current ACTFLEX 101 UV membrane is dry, sound, and in

satisfactory condition, begin by priming with a single coat of ACTFLEX EP 250. This step enhances the bond between the existing and new coatings.

- 4. **Existing Membrane Delaminating:** In instances where the existing **ACTFLEX 101 UV** membrane is delaminating, remove all delaminated coatings back to a firmly adhered edge. After removal, apply two coats of ACTFLEX EP 250. This process ensures proper adhesion and stability.
- 5. **Coating Application:** Apply a total of three coats of **ACTFLEX 101 UV** after surface preparation. Follow the application guidelines for each coat to ensure uniformity and effective waterproofing.

Application Rates

	DFT RATE	Number of Coats Minimum	Recoat Time at 25°C 50%RH	Full at 2	Cure Time 5°C 50%RH		
External Exposed Wall Applica	tions 8mm or 800 microns	2	6 Hours	14 Days	After Final Coat		
Roof Tops, Gutters and Expose Horizontal Surfaces	1.2mm or 1200 microns	3	6 Hours	14 Days /	After Final Coat		
Maintenance	•	Tiling				•	
Clean and inspect periodically to maintain surface. Any damage We do not recommend tiling over ACTFLEX 101 UV . identified during normal inspections should be repaired or replaced as appropriate. Re-coat when necessary.							
Limitations						•	
 Not compatible with all silicon-based and bitumen surfaces/products. Not recommended for constantly submerged applications such as swimming pools and ponds. Not suitable for use in chlorine environments. Is not a vapour barrier and is not designed to withstand negative side substrate head of pressure. ACTFLEX 101 UV must be applied to a dry surface which is free from dampness. 		 Do not apply if rain threatens. Tinting may affect the solar and UV reflective properties of ACTFLEX 101 UV. Do not tint with more than 1% tint acrylic colour. Care should be taken when coating over movement joints as in some cases the amount of movement may be more than the capability of the membrane. ACTFLEX 101 UV accepts maintenance foot traffic only. 					
Coverage, Drying	and Curing					•	

Coverage, drying, and curing rates are provided as indicative benchmarks, recognizing their susceptibility to various influencing factors including surface porosity, humidity, temperature, climatic conditions, ventilation, application methodology, and dry film thickness. A 15-litre (20kg) container

ACTFLEX 101 UV is expected to adequately cover approximately 8–10m² with three coats, based on a total Dry Film Thickness (DFT) of 1.2mm. The coverage rate is 0.67m²

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per liter per coat, or **10m² per 15L container** for two coats. This estimate assumes normal application and does not account for potential material wastage. The **re-coat time** is typically **6 hours** at 23°C and 50% relative humidity. It becomes **trafficable after 24 hours**, and achieves **full strength cure in 14 days**. Avoid allowing rain to sit on the surface or submerging it under water for at least **72 hours** to ensure optimal performance.





Always use ACTFLEX 101 UV in a well-ventilated area while wearing the appropriate Personal Protective Equipment (PPE), including a breathing respirator. Wash hands immediately after use and before breaks. Avoid contact with skin, eyes, food, or utensils. In case of eye contact, rinse with water; if inhaled, move to fresh air; if swallowed, do not

induce vomiting and seek medical attention immediately, contacting the local Poisons Information Centre (AUS: 131 126, NZ: 0800 764 766). For transport emergencies, dial 000. Follow all local regulations and safety guidelines on the packaging. For more details, download the Safety Data Sheet (SDS) at www.forspec.com.au. Keep out of reach of children.

Clean Up Storage Wash all equipment in soapy water immediately after 12 months when stored in the original, unopened use. Avoid spillage as it is difficult to remove entirely containers in a dry place @ 10-26°C & 50% R.H. Keep from surfaces. containers in a well-ventilated place, away from sunlight

DO NOT discharge into sewer or waterways. DO NOT allow wash water from cleaning or process equipment to enter drains.

and moisture and tightly closed.

Storage above this temperature may reduce storage life.

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