FORSPEC PROTECTIVE COATINGS

ACTFLEX ULTRA FC.

Technical Data Sheet | TWO COMPONENT POLYASPARTIC UV TOP COAT | 07/01/2025

Description

ACTFLEX ULTRA FC is an ultra-performance, UV-stable, two-component topcoat designed for both solvent-based and water-based polyurethane systems. With a 90% solids composition, this advanced Polyaspartic coating provides superior durability, rapid curing, and excellent resistance to yellowing. Once fully cured, **ACTFLEX ULTRA FC** offers exceptional resistance to high traffic, making it ideal for demanding environments. Engineered for longevity, it boasts an extended service life of 10–15 years, ensuring lasting protection and performance.

Roller, Brush, or Spray Grade	Colour	Packaging (Weight)
	N52 Mid Grey	10L, 20L, 40L

ACTFLEX ULTRA FC Applications and Advantages:

- Applicable over **ACTFLEX 929 SPU.**
- Suited for garage floors and various commercial, industrial, or residential flooring contexts.
- Suitable for flooring within food processing plants.
- Effective for situations of permanent immersion.
- Compatible with Forspec Protective Coatings
- Waterproofing Membranes.
- Exhibits high abrasion resistant vehicular traffic durability.
- Exhibits high foot traffic durability, making it suitable for stand-alone trafficable coatings when applied on top of **ACTFLEX 929 SPU**.
- Demonstrates strong hydrostatic resistance.
- Enhances the lifespan of waterproofing membrane systems.
- Maintains permanent flexibility.
- Well-suited for water immersion applications.
- Demonstrates commendable resistance to chemicals.
- Displays high strength and puncture resistance.
- Provides a seamless membrane, eliminating joints or laps.
- Facilitates straightforward repairs and maintenance.
- Yields an odorless (subjectively perceived) cured state.
- Engineered to deliver enduring protective benefits.
- Offers easy application.

ACTFLEX ULTRA FC Properties

Colour	Clear or Coloured	**No Fatigue Cracking**	Pass
Solids Content	90%	**Recoat time at 25°C 50% R.H.**	1-4 Hours
Elongation at Break	<100%	**Hard Through Time at 25°C 50% R.H.**	3.5 Hours
ASTM E96 Moisture Vapour Transmission	Pass	**Full cure time at 25°C 50% R.H.**	48 Hours
Physical Or Chemical Damage	No	**Application Temperature**	10-26°C
Shore Hardness A	93		
Shore Hardness D	56		

Preparation

1. **Surface Inspection**
   - Ensure the FORSPEC waterproofing membrane is fully cured as per manufacturer specifications.
   - Check for contaminants, dust, or surface irregularities that may affect adhesion.
   - Repair any damage, pinholes, or inconsistencies in the membrane before proceeding.

2. **Cleaning & Surface Preparation**
   - The ACTFLEX ULTRA FC topcoat must be applied within 24 hours of the waterproofing membrane being fully cured.
   - If prolonged exposure occurs before applying the topcoat, a thorough xylene wipe is highly recommended to etch the surface and remove any contaminants.
   - Remove all dust and debris using vacuuming or compressed air.

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3. **Adhesion & Compatibility Check**
   - Conduct a small test patch in an inconspicuous area to confirm adhesion.
   - Ensure there is no delamination or peeling before proceeding with the full application.
4. **Priming (If Required)**
   - If additional adhesion is needed, apply ACTFLEX 700 PU PRIMER in a thin, even coat and allow it to dry before applying ACTFLEX ULTRA FC.
5. **Application of ACTFLEX ULTRA FC**
   - Once the surface is prepared and dry, proceed with the application of ACTFLEX ULTRA FC following the recommended mixing and application guidelines.

Application Instructions

1. **Mixing**
   - Stir **Part A** thoroughly before mixing.
   - Mix **Part A and Part B** at the specified ratio using a low-speed drill mixer for **2–3 minutes** until a uniform consistency is achieved.
   - Avoid aerating the mixture to prevent bubbles in the coating.
2. **Application Steps**

Standard Application:

1. Apply **1 coat of ACTFLEX ULTRA FC** evenly to the prepared substrate using a roller, brush, or spray.
2. Allow the first coat to dry for **6–24 hours**, depending on temperature and humidity.
3. Apply **a second coat of ACTFLEX ULTRA FC**, ensuring even coverage.
4. Allow the coating to cure for **24 hours before full traffic exposure**.

Non-Slip Application:

1. Apply **1 coat of ACTFLEX ULTRA FC** to the substrate using a roller, brush, or spray.
2. While the coating is still wet, **broadcast ACTFLEX ANTI-SLIP** evenly across the surface.
3. Allow the first coat to dry for **6–24 hours**, depending on conditions.
4. Apply **a second coat of ACTFLEX ULTRA FC**, ensuring full coverage over the anti-slip layer.
5. Allow the coating to cure for **24 hours before full traffic resistance**.

3. **Curing & Traffic Exposure**
   - **Light foot traffic:** 6–12 hours after the final coat.
   - **Full traffic resistance:** 24 hours after the final coat.
   - **Full chemical and mechanical resistance:** 5–7 days after application.

Application Rates

	DFT RATE PER COAT	Number of Coats	Recoat Time at 25°C 50%RH	Full Cure Time at 25°C 50%RH
Floor	0.3	1	6 Hours	24 Days After Final Coat
Wall	0.2	1	6 Hours	24 Days After Final Coat

Coverage Drying and Curing

Coverage
- 5 sqm per litre per coat
- A 40L kit will cover approximately 200 sqm (single coat application).
- For optimal performance, a minimum of two coats is recommended. (optional)

Re-Coat Time
- 6 hours between coats at 25°C and 50% relative humidity (+/- depending on conditions).
- Ensure the previous coat is tack-free before applying the next layer.

Curing Time
- Touch Dry: 2-4 hours
- Light Foot Traffic: 12-24 hours
- Full Cure: 24 hours at 25°C and 50% relative humidity (+/- depending on conditions).
- Higher humidity or lower temperatures may extend curing times.

Limitations

Application Conditions:
- Do not apply if ambient or surface temperature is below 5°C or above 35°C.
- Avoid application in high humidity (>85%) or if rain is expected within 6 hours.

Surface & Substrate Restrictions:
- Must be applied over properly cured and prepared surfaces; poor adhesion may occur on contaminated or improperly cleaned substrates.
- Not suitable for damp or wet surfaces—ensure the substrate is completely dry before application.

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Curing & Traffic Limitations:

- Full traffic resistance requires 24 hours of curing; heavy mechanical loads should be avoided for 5–7 days.
- Premature exposure to moisture, chemicals, or traffic may affect performance.

Product Compatibility:

- Must be used in combination with FORSPEC waterproofing membranes and approved primers if needed.
- Not compatible with silicone-based sealants, oily substrates, or bitumen surfaces without prior adhesion testing.

Mixing & Pot Life Considerations:

- Once mixed, the material has a limited pot life—use within the specified working time.
- Over-mixing or improper blending can introduce bubbles and affect the final finish.

Non-Slip Additive Precautions:

- If using ACTFLEX ANTI-SLIP, ensure even broadcasting to avoid inconsistent texture.
- Additional coating layers may be required to fully encapsulate the non-slip material.

UV & Weathering Exposure:

- While UV-stable, long-term exposure in extreme climates may require additional maintenance or recoating.

Clean Up

- **Tools & Equipment:** Clean all tools, rollers, and mixing equipment immediately after use with **xylene or an approved solvent**.
- **Spills:** Wipe up spills immediately using **absorbent materials** and dispose of them according to local regulations.
- **Cured Material:** Once cured, ACTFLEX ULTRA FC can only be removed **mechanically** (e.g., grinding or sanding).

Storage

- Store in a **cool, dry, and well-ventilated area** away from direct sunlight, moisture, and heat sources.
- Keep containers **tightly sealed** when not in use to prevent contamination.
- **Do not store at temperatures below 5°C or above 35°C**.
- Avoid prolonged storage after opening—**use within the recommended shelf life**.
- Keep away from **open flames, sparks, or ignition sources** as the product contains flammable components.

Safety Precautions

ACTFLEX ULTRA FC and FORSPEC coatings contain flammable components and must be handled with care. Always use in a well-ventilated area and wear appropriate Personal Protective Equipment (PPE), including gloves, safety goggles, and respirators. Use breathing respirators at all times, especially in enclosed or poorly ventilated areas. Wash hands immediately after use and before breaks. DO NOT allow the material to come into contact with humans, exposed food, or food utensils.
In case of eye contact, rinse with plenty of water. If inhaled, move to fresh air immediately. If swallowed, DO NOT induce vomiting, and seek medical attention immediately by contacting a doctor or Poisons Information Centre on 131 126 (AUS) or 0800 764 766 (NZ). In case of a transport emergency, dial 000 for Police or Fire Brigade. KEEP OUT OF REACH OF CHILDREN.
Local regulations, as well as health and safety advice on packaging labels, must be followed. For more detailed safety information, download the Safety Data Sheet (SDS) from www.forspec.com.au.

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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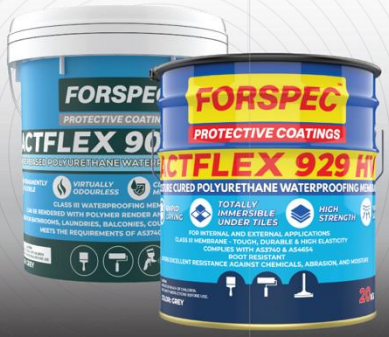

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