



ACTFLEX 400 CLEAR.

Technical Data Sheet

Transparent Waterproofing Coating Membrane

07/09/2023

Description

ACTFLEX 400 is a clear, single-pack co-polymer emulsion with synthetic rubber latex, developed as a temporary leak-stopping solution for tiled areas. Applied directly over existing tiles, it forms a tough, flexible, UV-resistant waterproof barrier without the need for tile removal. The semi-gloss transparent finish maintains the original look of the surface while providing up to five years of protection. Ideal for tiled showers, balconies, podium decks, and face brick walls, it offers a fast and effective way to seal leaks while preserving the substrate's appearance..

Colour

Transparent

Packaging

▪ 1kg

▪ 3kg

▪ 7kg

Characteristics/Uses

ACTFLEX 400, is a transparent foot trafficable over-tile top coat waterproofing membrane/coating. Suitable areas include:

1. Tiled balconies, courtyards, terraces etc.
2. Wet areas such as showers etc.
3. Waterproofing of terracotta tiles and pavers.
4. Top coating / sealing of timber floors.
5. Sealing sandstone surfaces.
6. Face Brick Walls.

Suitable for the Following Substrates

Suitable surfaces that have been properly cleaned and prepared include but are not limited to:

Do not apply onto substrates with surface temperatures under 10°C.

- Tiles
- Timber
- Pavers
- Most Masonry Surfaces
- Concrete
- Terracotta
- Bricks

ACTFLEX 400 Advantages

- **ACTFLEX 400 Clear** is classified as non-hazardous and non-flammable.
- Low VOC.
- Tough and durable and low yellowing.
- **ACTFLEX 400** is a waterproofing top coat membrane, not a penetrating a clear sealer.
- Can be applied to tiles and pavers.
- Great for leaking showers and balconies.
- Solves waterproofing problems to tiled areas without removing tiles.
- Dries transparent with a semi gloss finish.
- Once cured **ACTFLEX 400** is foot trafficable.
- Easy application by trowel, brush or roller.
- Single pack and easy to use.
- Can be used exposed to sunlight.
- Can be made slip resistant by adding silica sand to the second coat.
- Good bonding to most surfaces (testing is highly recommended).

Surface Preparation

1. Surface Inspection and Repair

- Inspect all surfaces to ensure they are free of voids, cracks, and protrusions.
- Assess the surface's stability, soundness, and structural integrity.
- Remove any compromised, loose, or damaged grout between tiles. All loose or damaged grout must be completely replaced with new grout or substituted with **ACTFLEX MS PRO** or **SOUDAL TREX** for enhanced durability and flexibility.

2. Surface Cleaning

- Ensure surfaces are completely dry, clean, and free from dust, grease, or any loose, flaking, or friable material.
- Use stiff bristle brushes, scrapers, and vacuum equipment to remove laitance, debris, and contaminants.

3. Crack Repair

- Repair cracks in concrete, render, or screeds using suitable repair mortars or **MS Polymer joint sealants such as ACTFLEX MS PRO or SOUDAL TREX**.
- Replace cracked tiles and ensure proper adhesion of new tiles.

4. Moss and Mould Treatment

- Apply a solution of household bleach diluted with water (1-part bleach to 2-parts water) to eliminate moss and mould.
- Ensure complete coverage to kill spores and prevent regrowth.
- Rinse thoroughly with clean water to remove all traces of bleach.
- Allow the substrate to dry completely.

5. Grease Removal and Drying

- Use appropriate detergents to remove grease or similar contaminants.

- Rinse off detergent, followed by a final rinse with clean water.
- Ensure the surface is fully dry, free from dampness or moisture.

6. Surface Preconditioning

- For optimal adhesion and performance, meticulous surface preparation is crucial.
- The surface must remain moisture-free for at least **3-5 days** without water or rain exposure.
- Moisture content must be below **4%** before proceeding with waterproofing.

Mixing

- Combine two parts of the gel with one part of water (2:1 ratio).
- Use mechanical stirring for thorough mixing.
- Example: Mix 1kg of **ACTFLEX 400 CLEAR** with 0.5L of water.

Application

- Use trowel, roller, or brush for application.
- Fill missing grout areas with a scraper and trowel for proper penetration on uneven surfaces.
- Neat application (undiluted) is recommended with trowel.
- Dilute **ACTFLEX 400 CLEAR** with water (2 parts 400 : 1 part water) for brush or roller application.
- Apply the first coat with a mohair roller for optimal results.
- Allow minimum 4-hour intervals between coats.
- Full cure after final coat takes 5-7 days at 25°C and 50% R.H. Ensure not water interruption in between this time.

- Apply all coats within 48 hours to prevent contamination.
- 2-3 coat system.
- Minimum dry film thickness: 0.5mm (500 microns) over joins, grout lines, mortar, concrete, and level surfaces.
- 0.2mm (200 microns) over tiles.

Slip Resistance:

- Apply first coat, then broadcast ACTFLEX ANTI SLIP while wet for slip-resistant finish.
- Blow off excess before subsequent coats.

ACTFLEX 400 CLEAR Properties

Appearance:	Transparent Liquid
Odour:	Odor Free
Chemical Resistant:	Good
Toxicity:	Dry Film is not toxic.
Waterproof Time:	3 Hours at 25°C and 50% R.H.
Coverage:	3m ² to 1kg depending on surface.
Usable Period After Opening:	12 Months

Vapour Pressure @25°C:	3.8 kPa
Solid Content:	45%
Elongation Break:	100%
Tensile Strength:	1.5 mPa
Touch Dry Time, Minimum:	120 Minutes At 20°C and 50% R.H. 60 minutes at 30°C and 50% R.H.
Full Cure:	72-120 Hours at 25°C and 50% R.H.
Application Time:	50-60A
Shelf Life:	12 Months

Coverage, drying and curing rates are given as a guide only as they can be affected by surface porosity, humidity, temperature, climate conditions, ventilation, application technique and dry film thickness. Improper storage may result in instability of product.

Limitations

□ **Compatibility:** Always test before use. Apply only to clean, dry surfaces.

□ **Application Conditions:** Apply between 10°C–26°C. Do not apply if rain is forecast within 24 hours. Surface must be completely dry—any dampness or retained moisture will prevent adhesion and cause peeling or flaking. Cure will slow in cold weather or if the surface holds moisture.

□ **Water Ponding:** Use only on floors with positive falls to drainage. Not for continuous ponding. A cloudy blush may appear while wet or under standing water but will turn clear once the surface dries in heat or sunlight.

□ **Traffic:** Withstands light foot traffic. Can be damaged by sharp objects, heavy loads, dragging, or excessive wear. Not for vehicles.

□ **Finish:** Clear membrane may show stains. Protect from chemicals, dyes, leaves, wines, etc. Clean spills immediately. Tools may leave light texture. If cloudy while wet, brush clear and recoat.

□ **Limitations:** Not a vapour barrier. Does not stop hydrostatic or rising damp. Not compatible with silicone or chlorine-based products. Some joint/corner detailing unsuitable where movement is excessive.

□ **Temporary Leak Solution:** Designed as a temporary fix for tiled area leaks for up to 5 years. Not guaranteed. Product may flake, peel, or rub off depending on substrate and conditions.

Clean Up

- **Clean all equipment immediately after use** by washing with soapy water to prevent residue buildup.
- **Avoid spillage**, as it can be difficult to completely remove from surfaces.
- **DO NOT discharge wash water or product waste into sewer systems or waterways** to prevent environmental contamination.
- **DO NOT allow wash water from cleaning or process equipment to enter drains** to maintain proper disposal protocols.

Storage

- **Store ACTFLEX 400** in an unopened container in a cool, dry environment (between 10°C and 24°C), above ground level. Under these conditions, the product has a shelf life of approximately **12 months**.
- **Always mix thoroughly** before use to ensure uniform consistency and optimal performance.

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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