

ACTFLEX 400 CLEAR

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The ACTFLEX 400 Clear Waterproofing Membrane is a class 2 waterproofing membrane. It is transparent single-pack co-polymer emulsion combined with a synthetic rubber latex emulsion. Engineered to function as a UV-resistant, transparent waterproofing barrier, this membrane is specifically designed to be applied over existing tiled surfaces to create a waterproof barrier without necessitating the removal of the original tiles. ACTFLEX 400 is characterized by its toughness, durability, flexibility, and foot traffic compatibility, all in a glossy transparent finish. This membrane is particularly suitable for areas where retaining the original substrate appearance is desired, such as tiled shower areas, balcony decks, podium levels, and face brick walls. It is essential to perform compatibility testing before application. ACTFLEX 400 CLEAR complies to AS4654.2 2012

COLOUR

Transparent

PACKAGING (weight)

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

ACTECH ACTFLEX 400 ADVANTAGES

- Meets the "Green Star" Environmental criteria.
- 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 gloss finish.
- Does not re-emulsify after proper curing.
- 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

- Surface Inspection and Repair:
 - Inspect all surfaces intended for waterproofing to ensure they are devoid of voids, cracks, and protrusions.
 - Verify the surface's integrity, assessing its stability, soundness, and structural condition.
 - Eliminate any compromised, loose, or damaged grout between tiles, ensuring their complete removal.
 - Tiles exhibiting cracks must be promptly replaced to maintain the surface's integrity.
- Surface Cleaning:
 - Prior to waterproofing, surfaces must be absolutely dry, clean, and free from dust, grease, or any other loose, flaking, or friable material.
 - Employ stiff bristle brushes, scrapers, and vacuum equipment to comprehensively clean surfaces, eliminating laitance, debris, dust, and any other forms of contamination.
- Crack Repair:
 - Address any existing cracks in concrete, render, or screeds by utilizing suitable repair mortars or MS Polymer joint sealants.
 - Cracks in tiles should be meticulously repaired by replacement, ensuring the new tiles are securely affixed.
- Moss and Mould Treatment:
 - Eradicate moss and mould through the application of a solution comprised of household bleach diluted with water (1-part bleach to 2-parts water).
 - Ensure complete coverage, allowing the solution to eliminate spores and inhibit future growth.
 - Thoroughly rinse the substrate with clean water, guaranteeing all traces of bleach are removed.
 - Facilitate thorough drying of the substrate.
- Grease Removal and Drying:
 - For surfaces tainted by grease or similar substances, use suitable detergents for thorough cleaning.
 - Carefully rinse the detergent off, followed by a comprehensive rinse with clean water.
 - Assure the surface is entirely dry, devoid of dampness or moisture.
- Surface Preconditioning:
 - In all cases, the success of waterproofing hinges on a meticulous and comprehensive surface preparation process, warranting optimal adhesion and performance of subsequent coatings.

MIXING

1. Combine two parts of the gel with one part of water (2:1 ratio).
2. Use mechanical stirring for thorough mixing.
3. 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.
- 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.

COVERAGE

- Coverage rate varies due to factors like humidity, climate, surface texture, and technique.
- 1 kg neat covers about 3m² in 3 coats.
- Porous surfaces use more material; consider multiple thin coats for better adhesion.

DRYING & CURING

Drying and curing of the product will depend on the porosity of the surface, temperature, humidity, ventilation, climate conditions, application technique and therefore can vary thus our information is only be given as a guide.

Allow a minimum of 4 hours between coats and 5-7 days full cure after final coat at 25°C and 50% R.H



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PROPERTIES

Appearance:	Transparent Liquid	Vapor Pressure @ 25oC:	3.8 KPa.
Odour:	Odor Free	Solid Content:	45%
Chemical Resistant:	Good.	Elongation At Break	100%
Toxicity:	Dry Film Is Not Toxic.	Tensile Strength	1.5mpa
Waterproof Time:	3 Hours At 25°C And 50% R.H	Touch Dry Time, Minimum:	120 Minutes At 20°C And 50% R.H.
Coverage:	3m ² To 1kg Depending On Surface.		60 Minutes At 30°C And 50% R.H.
Usable Period After Opening:	12 Months	Full Cure:	72-120 Hours At 25°C And 50% R.H.
		Application Temperature:	10°C – 26°C.
		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

Always do a compatibility test prior application

Water Ponding: We recommend Actech ACTFLEX 400 Clear Waterproofing Membrane to be laid in floors that provide positive falls to drainage to eliminate ponding.

Curing and Temperatures:

- ACTFLEX 400 must be applied to a dry surface which is free from dampness.
- Do not apply if rain threatens
- Apply in temperatures between 10°C – 26°C
- Rate of cure will be inhibited when air or substrate temperatures are below + 10 C and/or moisture content of the surface.

Trafficability:

ACTFLEX 400 can withstand general foot traffic. However, as the membrane is flexible, it can be damaged by point loads, heavy weights, sharp objects, scuffing, dragging items across the surface and general excessive abuse and should be protected against these. It is NOT suitable for vehicular traffic.

Staining, Texture Finish and Cloudy Finish:

As we are unable to test for all manner of stains and sources of stains, as a precaution given that the membrane is clear and is most likely more susceptible to showing stains than a coloured coating, the membrane should be protected from possible sources of stains such as chemicals, dyes, leaves, certain wines etc. Spills should be immediately cleaned with a suitable detergent.

Rollers, brushes and trowels applicator may leave a texture finish to the membrane.

Once applied if a cloudy film is present, whilst still wet rub the area using a brush allowing it to go clear and then re-coat.

Desire for a clear finish:

As a clear finish is desired, some conventional methods for preparation, priming, reinforcing, and sealing of joints, gaps and corners are inappropriate and their omission may render some applications where movement in joints, corners and cracks are excessive, substantial or beyond the capability of the membrane unsuitable.

Rising Damp: ACTFLEX 400 is not a vapour barrier and is not designed to stop hydrostatic negative pressure.

Not Compatible with: Not compatible with silicon and chlorine-based products.

CLEAN UP

Wash all equipment and clean wet spills with soapy water prior to drying.

Once dry it is difficult to remove and mechanical means may be necessary.

DO NOT discharge into sewer or waterways.

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

STORAGE

When stored in an unopened container in a cool (10°- 24°), dry environment and stored above ground level, ACTFLEX 400 will have a shelf life of approximately 12 months.

Always mix well before use.

CONDITIONS OF USE AND PRODUCT DISCLAIMER

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