

# MITCHFLEX 2K

## Cementitious Highly Flexible Waterproofing Coating

### DESCRIPTION

**MITCHFLEX 2K** is a two part acrylic polymer modified highly flexible cementitious coating. It is supplied in a pre-packaged form. This product is designed to be mixed easily on site using a slow speed drill fitted with a mixing paddle and then applied to the substrate using a brush, roller, trowel or spray. The finished coating is of a slightly granular texture.

### APPLICATIONS

**MITCHFLEX 2K** is a highly flexible cementitious coating, with very good crack bridging ability, specially designed for roof waterproofing for being UV resistant.

**MITCHFLEX 2K** is suitable for use on all types of structures in industrial, commercial and residential areas including those situated in coastal environments.

**MITCHFLEX 2K** can be used on concrete, brick and block work, is equally suited for both new and existing structures and provides a durable, flexible waterproof coating suitable in accepting light foot traffic.

### BENEFIT AND FEATURES

- Waterproof with crack bridging upto 2 mm.
- Allows water vapor to escape from the structure.
- Highly resistant to the effects of long term weathering, durable in all climatic conditions.
- Non-toxic
- Excellent bond to concrete and masonry.
- Minimum surface preparation required.
- Flexible.
- Designed to accept light foot traffic.

### DESIGN CRITERIA

**MITCHFLEX 2K** is designed to be applied at a minimum thickness of 1mm. This can generally be achieved in one application. It is strongly recommended to apply a second application of **MITCHFLEX 2K** on roof areas, which will be subject to pedestrian traffic. The total dry film thickness with a second application is expected to be not less than 2mm.

### COVERAGE:

0.5 to 1.0 Kg / m<sup>2</sup> per coat

### PACKAGING:

18 Kg UNIT (13 Kg Powder + 5 Kg Liquid)

### TECHNICAL DATA

Mix Ratio:	Liquid : Powder 1part : 2.6 parts
Pot Life at 30°C:	40 minutes
Colors:	Grey & White
Mixed Density:	1.65 kg/Lt
Application temperature:	5°C – 35°C
Adhesion Strength: (ASTM D412)	2 N/mm <sup>2</sup>
Crack Bridging: (ASTM 836)	Upto 2 mm
Elongation at Break: (ASTM D412)	250%
Water permeability: (ASTM E96)	< 30 g/m <sup>2</sup> /day

### APPLICATION INSTRUCTIONS

**Preparation:** All surfaces, which are to receive the coating, must be free from contamination such as oil, laitance, grease, wax, dirt or any other form of foreign matter, which could affect adhesion. Typically, using high-pressure water jet or grit blasting can clean concrete surfaces. Spilled surfaces or those containing large blowholes, cracks or other such defects should be repaired using the appropriate grade of concrete repair mortar.

**Mixing:** The liquid polymer is poured from the plastic container into a plastic or metal drum having a volume of at least 25 liters. Then powder component is gradually added whilst mixing with a slow speed drill fitted with an approved mixing paddle. Mixing must be continued until lump free slurry is obtained. This should take a minimum of three minutes to a maximum of five minutes.

**Application:** Pre-dampen the substrate surface with water using a brush or spray bottle. High porosity substrates will require more dampening than dense substrates. Whilst the surface is damp, apply the material using a soft bristled brush (120mm-200mm wide) or trowel to achieve a minimum wet film thickness of 1mm. Application may also be made by roller, however, it is recommended to finish the surface with a trowel for best results.

The first coat should be allowed to cure for a minimum of 5 hours at 20°C or 3 hours at 35°C prior to a second application, should it be required. This should also be applied to a minimum wet film thickness of 1mm. Pre-dampening of the substrate is not necessary prior to applying the second coat.

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Please note: The actual coverage rate of **MITCHFLEX 2K** will vary dependent on the texture and porosity of the substrate. The coverage figures for liquid products are theoretical, due to wastage factors and the variety and nature of possible substrates, practical coverage figures will be reduced.

### STORAGE

Shelf life is 1 year in unopened packs stored below 35°C in a shaded environment. The liquid component must not be allowed to freeze. If stored at high temperatures the shelf life will be reduced.

### PRECAUTIONS

**MITCHFLEX 2K** powder is irritating to the eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment.

**MITCHFLEX 2K** liquid is not classified as dangerous.

**MITCHFLEX 2K** when mixed becomes highly alkaline, wear suitable protective clothing, gloves and eye protection.

For both components and mixed material, avoid contact with eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**Fire:** **MITCHFLEX 2K** components are non-flammable.

**Cleaning:** Immediately after application is completed clean all tools and equipment with clean water. Hardened material can only be removed by mechanical means.

**MITCHFLEX 2K** should not be used when the temperature is below 5°C and falling. Do not proceed with application when rainfall is imminent unless in a sheltered or protected location. The product should not be exposed to moving water during application.