

MITCHFLEX 1K

Cementitious Flexible Waterproofing Coating

DESCRIPTION

MITCHFLEX 1K is a single component flexible cementitious coating for waterproofing. 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 1K is an elastomeric cementitious coating specially designed for roof waterproofing and as a UV resistant anti carbonation protective coating.

MITCHFLEX 1K is suitable for use on all types of structures in industrial, commercial and residential areas including those situated in coastal environments.

MITCHFLEX 1K can be used on concrete, brick and block work, is equally suitable for both new and existing structures and provides a durable, flexible waterproofing coating,

BENEFIT AND FEATURES

- Waterproof
- Breathable, 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 1K 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 1K** on roof areas, which will be subject to pedestrian traffic. The total dry film thickness with a second application is expected to be no less than 2 mm.

COVERAGE

1.5 Kg / m² (DFT 1mm)

PACKAGING

25 Kg Bag

PROPERTIES

Typical properties of mixed material

Pot Life at 20°C	50 minutes
Pot Life at 30°C	40 minutes
Colors	Grey & White
Mixed Density	1750 kg/m ³
Minimum application temperature	5°C

APPLICATION INSTRUCTIONS

SURFACE PREPARATIONS

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. Badly damaged surfaces or those containing large blowholes, cracks or other such defects should be repaired using the appropriate grade of concrete repair mortar.

MIXING

Pour water into a plastic or metal drum having a volume of at least 25 liters. **MITCHFLEX 1K** 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.

Please note: The actual coverage rate of **MITCHFLEX 1K** will vary dependent on factors such as the texture and porosity of the substrate, wastage etc.

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STORAGE

Shelf life is 1 year in unopened packs stored below 35°C in a shaded environment. If stored at high temperatures the shelf life will be reduced.

PRECAUTIONS

MITCHFLEX 1K is irritating to the eyes, respiratory system and skin. Avoid inhalation of dust and wear suitable respiratory protective equipment.

MITCHFLEX 1K when mixed becomes highly alkaline, wear suitable protective clothing, gloves and eye protection. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

FIRE

MITCHFLEX 1K is 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 1K 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.