



1. PRODUCT NAME

BITU FILEX
Flexible Waterproofing Slurry



2. PRODUCT DESCRIPTION

BITU FILEX is a grey colored cement based two component polymer modified waterproofing slurry.

- Powder made of cements, fillers and admixtures.
- Liquid based on resins and additives.

It cures to form an elastomeric, waterproof, flexible and resistant membrane, suitable for use in potable water tanks, reservoirs, canals and tunnels. The material which can be applied on cement based substrate like concrete, cement plaster, masonry and gypsum board substrates has been designed to accommodate good crack bridging qualities even after long term water immersion. BITU FILEX must be used on damp cement based substrates.

USES:

For interior/exterior coating on:

- Potable Water tanks, Tunnels, Pits and tanks
- Waterproofing of sludge basins in sewage.
- Waterproofing of terraces, balconies, showers, swimming pools & bathrooms etc. before Tile installation.
- Waterproofing of below-grade structures like basements, retaining walls, foundations, etc.

PROPERTIES:

- Resists high hydrostatic positive and negative pressures.
- Excellent crack accommodation before and after immersion.
- Permeable to water vapor, allows the substrate to breathe.
- Reduces carbonation and electrochemical corrosion.

PACKAGING:

20 Kg Unit (A+B)

COVERAGE:

BITU FILEX is applied at the rate of 1.5 -2.5 kg/m² per coat depending on the substrate and application.

SHELF LIFE:

Minimum 12 months when unopened and stored in well controlled area.

STANDARD COMPLIANCE:

Conforms to BS EN 12390-8 / DIN 1048

TECHNICAL DATA:

BITU FILEX	Characteristics @ 25 °C
Powder Appearance	Grey
Form	A=Liquid & B= Powder
Pot Life	Approx. 30-40 Minutes
Specific Gravity	A= 1.01 & B= 1.35
Mixing Ratio A:B (by Weight)	Slurry = 1:3.7 Mortar = 1:4.2
Compressive Strength	15-20 N/mm ²
Resistance to positive water Pressure(DIN 1048)	5bar (50m head Pressure water)
Resistance to Negative water Pressure(DIN 1048)	3bar (30m head Pressure water)
Water Impermeability	No penetration (0.2 kgf/cm ² for 6 hours)
Crack Bridging Ability	2-3 mm
Flood Test	After 72 Hours of Application
Minimum Coats	2 Coats
Time Interval between 2 Coats	Approx. 2 Hours (Touch Dry)



3. INSTRUCTIONS FOR USE

SURFACE PREPARATION:

Substrate temperature must be between 4°C and 32°C. Recommended cleaning methods are high pressure water cleaning and sandblasting. Any damage or concrete defect should be repaired in advance. It is necessary to stop any running water prior to the application of BITU FILEX.

MIXING:

Both components are premeasured for use as flexible waterproofing slurry. Place the full contents of component A in a suitable mixing container. Under slow stirring, add all of component B and mix to homogenous, lump free slurry consistency using a slow rotating drill (max. 250 rpm) and avoiding entrapment of any air. For mortar consistency use only 90% of liquid component A.

APPLICATION:

Apply with brush or trowel on substrate prepared for waterproofing slurry. A minimum of two coats required to form a 2-3mm continuous film. Apply the second layer after first coat is dry to touch (Approx. 2 Hours) across the direction of the first coat.

IMPORTANT RECOMMENDATIONS:

Depending on the application temperature, substrate & mode of application, consistency of the mix (slurry/mortar) can be adjusted with component A.

Two coats are always required.

- Waterproofing up to 1mm head pressure: 1.5-2.0 Kg/ m² per coat.
- Waterproofing above 1mm head pressure: 2.0-2.5 Kg/ m² per coat.

4. HEALTH & SAFETY

Avoid prolonged contact of BITU FILEX with skin as it irritate the skin like all cementitious materials. Cement dust from BITU FILEX

will irritate the mucous membrane. Wear protective gear for hands & eyes. Splashes on the skin should be washed away by cleaning with soap and water. In case of contact with eyes, wash thoroughly with clean water. If swallowed, do not induce vomiting. In both cases seek medical attention. The product is non-flammable.

5. DISCLAIMER

While the company guarantees its products against defective materials, the use and application of these products are made without guarantee since the conditions of their application are beyond its control.

It is recommended to verify with the company that the product is suitable for the intended use, and that this Data Sheet version is the latest one. The company may modify it without prior notice. Technical characteristics are listed for guidance only. For more information, please contact the company's representative.