



## BITUSELF FLEXI CEMENT

### Flexible Latex Waterproofing Membrane

#### DESCRIPTION

**BITUSELF FLEXI CEMENT** is a two component acrylic modified cementitious coating that requires only on site mixing to form the ideal product to waterproof concrete, masonry, and most other construction materials. Part "A" waterproofing powder and Part "B" a blend of liquid acrylic latex copolymers. Both products part "A" and Part "B" are mixed at the job site and applied with a brush or trowel.

#### USES

- As a waterproof lining for water retaining structures/ swimming pools.
- As a waterproof coating for sea-water structures.
- As a waterproof coating for concrete slabs, roofs, balconies kitchens and bathrooms under tiling floors.
- As a coating for sewage treatment plants.
- To provide foundation protection.
- As a waterproof coating for roofs.
- As a backing to marble and granite to prevent water ingress and surface staining
- To provide protection to concrete surfaces from carbonation and chloride attack.

#### ADVANTAGES

- **Easy to use:** Easily brushable or trowel applied product. It is resistant to UV rays.
- **Elasticity:** Excellent elongation.
- **Durability:** This latest technology combination of special raw materials deliver superior durability under our local climatic exposure.
- **Adhesion:** Excellent bond strength of porous and non-porous surfaces.
- **Flexibility:** The Part "B" component is specially blended copolymer of acrylic latex which improves adhesion flexibility and waterproofing characteristics.
- **Anti-carbonation:** A membrane of 1 to 1.5mm thickness provides an excellent shield against the penetration of carbon dioxide and chloride ions.
- **Special Features:** A fully cured membrane is non-toxic, hard wearing seamless shield capable of bridging surface cracks.
- **High Pressure withstand:** Able to withstand high positive & negative water pressures.
- **Waterproofing:** Excellent even under pressure.
- **Vapour Permeability:** A fully cured membrane of 1 to 3mm thickness is vapour permeable and allows, the substance to breath.



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### TYPICAL PROPERTIES @ 25 DEGRES

- Test conducted at our factory laboratory have given the following results:
- Mixed Density : 1.80 ± 0.05
- Application Time : 45 min ± 15
- Colour : Grey
- **Resistance to Water**  
**Pressure (2mm coating) @5bars: No leak**  
**DIN 1048 part 5 1991**
- Tensile strength : 1.4 N/mm<sup>2</sup> @ 28 days  
2 mm coating  
(ASTM412)
- Fire rating: Non-combustible.
- Static Crack Accommodation: 1 mm  
(EN1062-7)
- Minimum Application Temp. : 5 °C
- Bond strength of concrete : > 2 N/mm<sup>2</sup>  
ASTM D4541-02 @ 28 Days (concrete failure)
- Bond strength of fair Face : > 2 N/mm<sup>2</sup>  
ASTM D4541-02 @ 28 Days
- Thickness of membrane : 3 mm
- **Elongation at break : > 45 %**  
( Astm D412 @ 2 mm  
Thickness)
- Average of volatile content in coating: 12 %
- Water vapour transmission : 0.02 / g/m<sup>2</sup>/h  
ASTM E 96
- Water penetration BS12390 part 8 : **NIL**



## **BITUSELF FLEXI CEMENT**

### **Mixing**

**BITUSELF FLEXI CEMENT** is supplied in premeasured units mixed at the site using clean plastic pails. Gradually add the dry powder (Part A) to the liquid (Part B) and " mix using a slow speed electrical drill fitted with mixing paddle. Do not mix more materials than can be applied within 1 hour. For small size mixes, use 2 to 2.5 volumes of powder for 1 volume of liquid. Mix thoroughly and keep mixing during application. Do not re-mix by adding water.

### **SURFACE PREPARATION**

All substrates to be treated with **BITUSELF FLEXI CEMENT** must be structurally sound and clean from all foreign products, grease, oil mould release agents etc. which should be removed by sand or high water pressure blasting.

### **Application**

Do not apply to dry concrete, Saturate concrete surfaces with clean water whilst still visibly damp, but free of standing water

Apply using a short, stiff bristle brush or roller. Trowel application can be undertaken as necessary for heavy 6-10mm. depressions, honeycombs etc. use. less gauging liquid and mix to the desired

Where more than one coat is found, necessary to achieve the desired thickness, apply he second or subsequent coats after the previous has dried

### **PACKAGING**

**BITUSELF FLEXI CEMENT** is available in: (Part A) 20 kg waterproofing dry powder, (Part B) 5kg liquid polymer.  
**Coverage:** One 25 kg kit covers 6 m<sup>2</sup> approx. at 2.5 to 3 mm thickness.( Excluding Wastage )

### **PRECAUTIONS**

**Protection:** All work must be protected from rain and frost until fully hardened

**Storage:** Shelf life of 12 months when stored in dry conditions at moderate temperature and humidity. Protect Part-B from frost.

### **PERFORMANCE STANDARDS**

(BS 12390) For water penetration test.

### **HEALTH AND SAFETY**

**BITUSELF FLEXI CEMENT** is non-toxic but mildly alkaline. Gloves should be worn during application. Splashes to the skin or eyes should be removed with clean water. In the event of prolonged irritation, seek medical advice.

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