

## **BITUFLEX BP -1C**

### **One –component polyurethane - bitumen liquid membrane for waterproofing**

#### **DESCRIPTION**

BITUFLEX BP 1C is an one component fast curing bitumen extended polyurethane liquid .The membrane that is formed is elastic, breathable, without seams or joints , with excellent adhering ability on various types of substrates, excellent resistance to mechanical strain and friction and good chemical resistance .

BITUFLEX BP-1C exhibits excellent adhesion with or without special primers to most types of substrates such as concrete , cement mortars, wood , metal, etc.

It is suitable for surface waterproofing of foundations, basements, roofs, bathrooms and balconies (under tile), roof-gardens, tanks, tunnels (cut and cover), etc.

#### **TECHNICAL CHARACTERISTICS**

##### **Mixture of polyurethane resin and bitumen in liquid form**

Colour	black
Density	1.30-1.35 kg/ltr
Viscosity at 23°C	1600-2000 cp
Skin time (23°C & 55% R.H)	45-75 min
Recoat time	2-48 hrs
Final curing time	7 days, depending on environmental conditions

##### **Cured membrane**

Elongation at break (ASTM D412)	>400 %
Tensile strength (ASTM D 412 )	2 N/mm <sup>2</sup>
Hardness SHORE A /(ASTM D2240)	70
Adhesion strength (ASTM D 4541)	> 2 N/mm <sup>2</sup> without primer
Reaction to fire (EN 13501-1)	F
Temperature resistance	-40°C to + 80°C

#### **APPLICATION**

The surface must be smooth ,clean and dry ,free from dust, oils and grease. .Any existing cavities in concrete should be repaired in advance. Priming with BITUFLEX PU PRIMER is recommended in order to improve the mechanical properties of the surface of the concrete.

Rainy weather should be avoided.

BITUFLEX BP 1C is applied by roll, brush or air-gun in 1-3 layers. Time interval between two layers is at least 2 h and not more than 48 h. However, this largely depends on environmental conditions.

#### **CONSUMPTION**

It is used at a consumption of 1.3 -2.0 kg/m<sup>2</sup>

#### **PACKAGING**

BITUFLEX BP-1C is supplied in containers of 1kg, 6kg, 25kg

#### **STORAGE**

12 months minimum from production date provided that it is stored in original , unopened containers at temperatures between +5°C and 35°C .

Once opened ,use as soon as possible.