



YAPI KİMYASALLARI SAN. VE TİC. LTD. ŞTİ.

www.betton.com.tr

# BETTOSEAL FLEX

Cement and Polymer Dispersion Based,  
Two Component, Fully Flexible Waterproofing Material

## MATERIAL DESCRIPTION

**BETTOSEAL FLEX is suitable for all kinds of cement and polymer dispersion based Fully flexible waterproofing material designed for reinforced concrete surfaces and cement based plasters.**

### AREAS OF USE

- Indoors and outdoors, vertically and horizontally from the direction of water,
- In water tanks (provided that the top is protected)
- Olympic swimming pools and thermal pools,
- Wall and floor coverings of cold storage rooms,
- In all wet areas of the building such as WC, bathroom, kitchen,
- On terraces (provided that they are covered),
- Foundations and retaining walls,
- Used for flower bed insulation.

### ADVANTAGES

humidity. High temperatures shorten the time, low temperatures lengthen the time.

- It has the ability to bridge shrinkage cracks, forms a waterproof layer under the screed and ceramic tiles,
- Creates a jointless, seamless, permanent, waterproof coating.
- Resistant to chemicals and salt solutions in the soil,
- Permeable to water vapor,
- High durability.
- Used in areas affected by movement and vibrations.
- Resistant to freeze - thaw cycles.

### TECHNICAL SPECIFICATIONS

<b>BETTOSEAL FLEX</b> Component A	Special cement, mineral fillers, polymer
<b>BETTOFLEX</b> Component B	Liquid polymer dispersion
Color	Greenish gray (final product)
Adhesion Strength Floor	$\geq 1.5 \text{ N/mm}^2$
Pressurized Water Resistance	7 bar (positive)
Temperature Water Vapor	+5°C +25°C
Service Temperature	-20°C +80°C
Permeability	Class 1
Capillary Water Absorption and Water Permeability Fresh Mix Use Time	Max. $0.1 \text{ kg/m}^2 \text{ h}^{0.5}$
Use Readiness Time	2 hours
Use Time to be Ready for Use	2 days (Mechanical Strength)
Covering	7 days (Water Impermeability) 3 days (Plaster or Ceramic)

Note: The above values are given for +23°C and 50% relative





## SURFACE PREPARATION

The surface to be applied must be sound, free from all kinds of oil, grease, rust, paraffin, paint, bitumen residues that will prevent adhesion to the surface and all loose parts must be cleaned. Iron and wooden wedges on the surface should be removed and active water leaks, if any, gaps formed with **BETTOFIX**, uneven surfaces and corner edges should be repaired with **BETTOCRETE** repair mortars with a radius of at least 4 cm. The surface should be wetted with water before application, but ponding should not be allowed. If the coating material loses its water immediately during application and takes on a dull appearance, it is understood that the surface has not been wetted sufficiently or has dried fast. In such cases where the weather is hot or the materials are exposed to wind, add 10% of the B component water into the mixed material for the first coat only.

## MIXING

Pour 60% (6 KG) of **BETTOSEAL FLEX 10KG B** into a clean mixing bucket. Add Powder Component A slowly in three parts and mix with a 400-600 rpm mixing mixer. The remaining 40% (4 KG) of component B is added to this mixture and mixing is continued.

**CAUTION: THIS METHOD CRUSHES THE POLYMER PARTICLES IN THE POWDER TO OBTAIN A VERY HOMOGENEOUS, LUMP-FREE MIXTURE.**

## MIXTURE AMOUNT

**BETTOSEAL FLEX** Component A : 20  
kg Powder **BETTOFLEX** Component B :  
10 kg Liquid **Mixture density: 1.7 kg/l**

## APPLICATION METHOD

The prepared **BETTOSEALFLEX** mixture is applied in two or three coats with the help of an insulation brush. The brush application direction in each layer should be perpendicular to each other. Waiting time between coats varies according to ambient conditions.

## PACKAGING

**BETTOSEAL FLEX** Component A 20 kg polyethylene reinforced paper bag.  
**BETTOFLEX** Component B 10 kg plastic drum.

## EXPENDITURE

1st floor consumption	:1.20 kg/m <sup>2</sup>
2nd floor consumption	:1.00 kg/m <sup>2</sup>
3rd floor consumption	:1.00 kg/m <sup>2</sup>

## SHELF LIFE

Under proper storage conditions, 1 year from the date of manufacture. **BET- TOFLEX** Component B freezes at temperatures below 0°C. Opened packages should be tightly closed and stored under suitable storage conditions.

## STORAGE


It should be stored in its unopened original packaging, in a cool and dry environment, protected from frost. For short-term storage, maximum 3 pallets should be stacked on top of each other and shipment should be made on a first-in, first-out system. For long-term storage, pallets should not be stacked on top of each other.

## SECURITY MEASURES

Application areas must be ventilated. During the application, work clothes, protective gloves, goggles and masks should be worn in accordance with Occupational Health and Safety rules. Due to the irritating effects of uncured materials, the components should not come into contact with the skin and eyes, in case of contact, they should be washed immediately with plenty of water and soap, and if swallowed, a doctor should be consulted immediately. Food and beverage materials should not be brought into the application areas. Keep out of the reach of children. For detailed information, refer to the Material Safety Data Sheet.

## RESPONSIBILITY

The data contained in this technical document are based on our scientific and practical knowledge. **BETTON Construction Chemicals San. ve Tic. Ltd. Şti.** is only responsible for the quality of the product. **BETTON Construction Chemicals San. ve Tic. Ltd. cannot be held responsible** for any consequences that may occur due to misuse and/or misuse other than the written recommendations on where and how to use the product. **Ltd. Şti.** cannot be held responsible.

 <b>1020</b>	
BETTON CONSTRUCTION CHEMICALS SAN. VE TİC. LTD. ŞTİ. DES Sanayi Sitesi 112. Sk. D:02 Blok No:34776 Yukarı Dudullu - Ümraniye / İSTANBUL 16	
1020-CPR-040 051250 DOP NO:11111 EN 13942	
BETTOSEAL FLEX Fully Flexible Waterproofing Material Coating Application 2.2/6.2 (Cement and Polymer Dispersion Based, Two Component, Fully Flexible, Water Insulation Material)	
Water Vapor Permeability	CLASS I
Capillary Water Absorption and Water Permeability	Max. 0.1 kg/m <sup>2</sup> .h.0.5
Pulling and Snapping	Horizontal without traffic load ≥ 1.5 (1.0)b
Reaction to Fire	Cs1,d0
Dangerous Goods	In accordance with Article 5.3



**BETTON**  
YAPI KİMYASALLARI SAN. VE TİC. LTD. ŞTİ.