

## BETTOSEAL FLEX SE

Cement and Polymer Dispersion Based,  
Two Component, Semi-Flexible Waterproofing Material

### MATERIAL DESCRIPTION

**BETTOSEAL FLEX SE is a cement and polymer dispersion based semi-flexible waterproofing material designed for all kinds of reinforced concrete surfaces and cement based plasters.**

#### AREAS OF USE

- Indoors - outdoors, vertically and horizontally from the direction of water,
- Semi-Olympic swimming pools and thermal pools,
- Water tanks,
- 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

- Thanks to its high adhesion performance and semi-flexibility, it forms a waterproof layer under screed and ceramic tiles,
- Creates a jointless, seamless, permanent, waterproof coating.
- Resistant to chemicals and salt solutions in the soil,
- Permeable to water vapor,
- Resistant to freeze - thaw cycles,
- Used in drinking water tanks (Test Report Available)

*Middle East Technical University (METU) analysis laboratory approved and complies with BS 6920 standard analysis report.*

#### TECHNICAL SPECIFICATIONS

<b>BETTOSEAL FLEX SE</b> Component A BETTOSEAL FLEX SE	Special cement, mineral fillers, polymer
Color	Liquid polymer dispersion
Pressurized Water Resistance	Dark cement color (end product)
Capillary Water Absorption and Water Permeability	$\geq 1.5 \text{ N/mm}^2$ (28 days)
Service Temperature	2 bar (positive)
Usage readiness time	Class 1
Time to use fresh mix	Max. 0.1 kg/m <sup>2</sup> h <sup>0.5</sup>
	+5°C +25°C
	-20°C +80°C
	2 hours
	2 days (Mechanical Strength)
	7 days (Water
	Impermeability) 3 days
	(Plaster or Ceramic)



Note: The above values are given for +23°C and 50% relative humidity.  
High temperatures shorten the time, low temperatures lengthen the time.



## SURFACE PREPARATION

The surface to be applied must be sound, free from any oil, grease, rust, paraffin, paint, bitumen residues that may 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, should be repaired with **BETTO-FIX** and gaps, uneven surfaces and corner seams 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 gets a dull appearance, it is understood that the surface is not wetted sufficiently or dries fast. In such cases where the weather is hot or the materials are exposed to the wind, add 10% of the B component water into the mixed material for the first coat only.

## MIXING

Pour **BETTOSEAL FLEX SE** Component B (liquid component) into a clean mixing bowl. Add the powder component slowly and mix with a mixing drill at 400-600 rpm. Mix for about 3-5 minutes until the mixture is fully homogeneous and rest for 2 minutes. Then it is mixed again for 1 minute and made ready for application.

## MIXTURE AMOUNT

**BETTOSEAL FLEX SE** Component A : 20 kg Powder **BETTOSEAL FLEX SE** Component B : 5 kg Liquid **Mixture density:** 1.9 kg/l

## APPLICATION METHOD

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

## PACKAGING

**BETTOSEAL FLEX SE** Component A 20 kg polyethylene reinforced kraft bag

**BETTOSEAL FLEX SE** Component B 5 kg plastic drum

## EXPENDITURE

1. coat	consumption 1.40 kg/m <sup>2</sup>
2. Coat	Consumption 1.20 kg/m <sup>2</sup>
3. coat	consumption 1.00 kg/m <sup>2</sup>

## SHELF LIFE

Under proper storage conditions, 1 year from the date of manufacture. **BETTOSEAL FLEX SE** Component B freezes at temperatures below 0 °C. Opened packages should be tightly closed and stored under suitable storage conditions and used within 1 week.

## 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 shipped 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.

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BETTON CONSTRUCTION CHEMICALS SAN. VE TİC. LTD. ŞTİ. DES Sanayi Sitesi 112. Sk. D:02 Block No:6 34776 Yukarı Dudullu - Ümraniye / İSTANBUL 16	
1020-CPR-040 051250 DOP NO: 11112 EN 15042	
BETTOSEAL FLEX SE Cement and Polymer Based Waterproofing Material Coating Application 2.2/B.2 (Cement and Polymer Dispersion Based, Semi-Flexible Waterproofing Material)	
Water Vapor Permeability	CLASS I
Capillary Water Absorption and Water Permeability	Max. 0.1 kg/m <sup>2</sup> .h <sup>0.5</sup>
Pulling and Snapping	Horizontal with traffic load ≥ 1.5 (1.0)b
Fire Response Class	Cs1,d0
Dangerous Goods	In accordance with Article 5.3

