

BETTOSEAL UV

Cement and Polymer Dispersion Based, UV Resistant, Two Component White Color Flexible Waterproofing Material

MATERIAL DESCRIPTION

BETTOSEAL UV is a cement polymer dispersion based, two-component, flexible waterproofing material that prevents moisture, leakage and surface water on concrete surfaces and can be applied from positive direction.

AREAS OF USE

- Indoors - outdoors, vertically and horizontally from the direction of water,
- On terraces, it can be left open under light load,
- From the direction of the water in the foundation insulation,
- Retaining walls,
- In wet areas such as WC, bathroom, kitchen and balcony,
- Swimming pools,
- Drinking and potable water tanks,
- Where waterproofing and protection against salt water is required,
- Protection of concrete surfaces against carbonation and chlorine attacks,

ADVANTAGES

- 1 mm dry thickness of **BETTOSEAL UV** provides protection against carbonation equal to 80 mm of concrete thickness.
- Waterproof, withstands water at 7 bar pressure.
- Reduces alkali-silica interaction in over concrete applications.
- It is white in color and UV resistant.
- Resistant to light pedestrian traffic.
- High durability. Resistant to freezing - thawing cycle.
- Resistant to carbon dioxide and chlorine in atmospheric conditions.
- Can be used in drinking water tanks.

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

TECHNICAL SPECIFICATIONS

BETTOSEAL UV Component A

BETTOSEAL UV

Color	White
Component B Adhesive	$\geq 1.5 \text{ N/mm}^2 \text{ Max.}$
Pressurized Water Resistance	7 bar (positive) at 2 mm dry film thickness
Strength Capillary Water	0.1 kg/cm ²
Applicable Floor Temperature	+5°C +25°C
Absorption	-20°C +80°C
Fresh Mix Use Time	2 hours
Service Temperature	2 days (Mechanical Strength)
Water Vapor Permeability	Class 1
Use Readiness Time	7 days (Water Impermeability) 3 days

Use Time to be Ready for Use

(Liquid or Ceramic)

Covering 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 all kinds of oil, grease, rust, paraffin, paint, bitumen residues that will prevent adhesion to the surface and all loose parts must be cleaned. Demir 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 mortar 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 in the wind, add 10% of the B component water into the mixed material for the first coat only.

MIXING

Pour **BETTOSEAL UV** 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 UV Component A (powder) 25 kg **BETTOSEAL UV** Component B (liquid) 8 kg **Mixing density: 1.8 kg/liter**

APPLICATION METHOD (Do not apply to dry concrete)

The prepared **BETTOSEAL UV** 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. Wet the concrete surfaces with clean water. They should be wetted until the moisture is visible, but puddles should not form. Apply with a short bristle brush or roller. If necessary, it can be plastered with a trowel. For 6-10 mm pits, pores, etc., use less mixing liquid to achieve the desired consistency. Where multiple coats are required, apply the second coat after the previous coat has dried to obtain the desired thickness. In general, for recoating, it is recommended that each layer should be at least 1mm thick. The spray application method is recommended for large areas.

PACKAGING

BETTOSEAL UV Component A 25 kg polyethylene reinforced kraft bag
BETTOSEAL UV Component B 8 kg plastic drum

EXPENDITURE

1. coat consumption 1.5 kg/m² mixture
2. coat consumption 1.5 kg/m² mixture
3. coat consumption 1.0 kg/m² mixture

EFFECT OF WATER PRESSURE

BETTOSEAL UV provides a protective, waterproof coating. **BETTOSEAL UV** has shown a resistance up to 7 Bar pressure (70 meters overhead water pressure). The degree of water resistance of **BETTOSEAL UV** under pressure depends on the thickness of the coating. These application rates are based on continuous water pressure conditions. Pressure application rate is 3 Bar, 4 kg/m², 7 Bar 6 kg/m². Consumption is 1.8 kg/m² to obtain 1 mm dry thickness.

SHELF LIFE

Under proper storage conditions, 1 year from the date of manufacture. **BETTOSEAL UV** Component B freezes at temperatures below 0°C. Opened packages should be tightly closed and stored in 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

During application, work clothes, protective gloves and goggles should be worn in accordance with Occupational Health and Safety rules. Avoid contact with skin and eyes during storage and application, in case of contact, wash immediately with plenty of water and soap, and in case of ingestion, consult a doctor immediately. Food and beverage products should not be brought into the application areas. It should be stored out of the reach of children. For detailed information, Material Safety Data Sheet should be consulted.

RESPONSIBILITY

BETON is only responsible for the quality of the product. Our company cannot be held responsible for any misuse and/or misuse other than the written recommendations on where and how to use the product. Please ask for the product brochure and contact our company

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BETON 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:111116 EN 15042	
BETTOSEAL UV Two Component White Color Flexible Waterproofing Material Coating Application 2.2/8.2 (Cement and Liquid Polymer Dispersion Based, UV Resistant, Flexible Waterproofing Material)	
Water Vapor Permeability	CLASS I
Capillary Water Absorption and Water Permeability	Max. 0.1 kg/m ² .h0.5
Pulling and Snapping	Horizontal with traffic load ≥ 1.5 (1.0)b
Reaction to Fire	Cs1,d0
Dangerous Goods	In accordance with Article 5.3

