

# BETTOSEAL MEMBRANE

Acrylic Polymer Based, UV Resistant, Elastic Waterproofing Material

## MATERIAL DESCRIPTION

**BETTOSEAL MEMBRAN** is an acrylic resin based, single component, ready-to-use elastomeric waterproofing material applied on terraces, roofs, precast streams and exterior facades.

Public Works Poz No : 04.509

## AREAS OF USE

- Outdoor, vertical and horizontal applications,
- On sloping terrace roofs,
- Concrete, zinc and precast gutters,
- It is used on the northern exterior facades of buildings.

## ADVANTAGES

- Ready to use, single component,
- Applied with a brush,
- It is not affected by sun heat and is UV resistant thanks to its white color,
- It retains its elasticity even at low temperatures,
- Easy to prepare and apply,
- Provides high adherence,
- Can be painted,
- Solvent free,
- Resistant to freeze - thaw cycles,

## TECHNICAL SPECIFICATIONS

Structure of the Material	Modified polymer resin
Color Density	White
Consistency	Brush consistency
Service Temperature	1.28 ± 0.05 kg/liter
Applicable Floor Temperature	+5°C +25°C
Capillary Water Absorption and	-20°C +120°C
Water Vapor Permeability	Class 1
	Max. 0.1 kg/m <sup>2</sup> h <sup>0.5</sup>
Adhesion Strength by Pull-Out Test	≥ 1.0 N/mm <sup>2</sup>
Surface Protection Time	4-5 hours

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. **BETTON** repair mortars should be used on uneven surfaces. Newly plastered (absolutely no lime added, **BETTOMIX 100** or **BETTOLATEX**) and reinforced concrete surfaces should be allowed to complete the 28-day curing period. The corners and edges should be chamfered with **BETTOCRETE ST 100 TX** with a diameter of 4 cm. Surface gaps can be repaired with **BETTOCRETE M**. Water flow towards the drains must be ensured. Deep cracks should be filled with **BETTOLASTIC PUM**.

## MIXING AND PRIMER PREPARATION

**BETTOSEAL MEMBRANE** is a ready-to-use material. In primer application, 50% water should be added to the material and mixed with a 400-600 rpm mixer for 3-5 minutes.

In the 1st coat application, 20% water should be added and mixed with a 400-600 rpm mixer for 3-5 minutes. The 2nd coat should be applied without mixing with water.

## APPLICATION METHOD

The prepared primer should be applied to the surface with a brush or roller (200 gr/m<sup>2</sup>). After the primer dries, the other coats should be applied to form a wet film thickness of 1-1,50 mm. Cracks, joints, corners and edges should be supported with 165 gr waterproofing mesh or armor after the first coat application.

## COLORING

**BETTOSEAL MEMBRANE** is produced in white color. It can be colored with paste pigment at a rate not exceeding 5% of the material amount. **BETTOSEAL MEMBRAN** can be painted with acrylic based exterior paint after drying.

## MATTERS TO BE CONSIDERED

**BETTOSEAL MEMBRANE** is not suitable for water tanks, swimming pools and foundations. The applied material should be protected from rain and frost for the first 24 hours. Each layer thickness should not exceed 1-1,50 mm in applications. Precautions should be taken on surfaces that need to be walked on. Reinforcement should be done with 165 gr mesh or armor. Do not apply on wet and damp surfaces. Pay attention to drying times between coats.

## PACKAGING

5 and 20 kg plastic buckets

## EXPENDITURE

<b>BETTOSEAL MEMBRANE</b>	<b>Consumption</b>
For 1 mm wet film thickness :	1,36 kg/m <sup>2</sup> For 1 mm
dry film thickness :	2,10 kg/m <sup>2</sup>
In gutters and streams :	2 - 3 kg/m <sup>2</sup>
Terraces :	3 - 4 kg/m <sup>2</sup>

## SHELF LIFE

Under suitable storage conditions, 12 months from the date of production. **BETTOSEAL MEMBRANE** freezes at temperatures below 0°C. Opened packages should be tightly closed and stored under suitable storage conditions and used within one 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 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 in case of ingestion, a doctor should be consulted immediately. Food and beverage materials 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

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

 <b>1020</b>	
BETTON CONSTRUCTION CHEMICALS SAN. VE TİC. LTD. ŞTİ. DES Sanayi Sitesi 112. Sk. D:02 Blok No:6 34776 Yuharı Dudullu - Ümraniye / İSTANBUL 16	
1020-CPR-040 051250 DOP NO: 11121 EN 15042	
<b>BETTOSEAL MEMBRANE</b> Elastic Waterproofing Material Coating Application 2.2/8.2 (Acrylic Polymer Based, UV Resistant, Elastic)	
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 ≥ 1.0 (0.7)b
Reaction to Fire	CLASS E
Dangerous Goods	In accordance with Article 5.3



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