

BETTOSEAL NP 100

Cement and Polymer Dispersion Based, Two Component, Fully Flexible Waterproofing Material that can be applied from negative and positive directions

MATERIAL DESCRIPTION

BETTOSEAL NP 100 is a cement and polymer dispersion based, two-component, fully flexible waterproofing material that prevents moisture, leakage and surface water on concrete surfaces and can be applied from negative and positive directions.

AREAS OF USE

- Indoor and outdoor, vertical and horizontal applications,
- Terraces (provided that the top is protected)
- In soft water (PH=3-7) storage ponds used in the textile industry,
- Air conditioning pools,
- 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
- As part of the foundation waterproofing system, in areas sensitive to movement, vibration and slight settlement,
- Protecting concrete from carbonation, water and de-icing salts,
- Waterproofing in foundation curtain concretes

TECHNICAL SPECIFICATIONS

BETTOSEAL NP 100 Component A	Special cement, mineral fillers, polymer
BETTOSEAL NP 100 Component B	Liquid polymer dispersion
Color	Gray-White
Adhesion Strength (N/mm²)	≥ 1.5 N/mm ² Max.
Pressurized Water Resistance	1 bar negative, 1.5 bar positive
Water Vapor Permeability	0.1kg/m ² h0 ⁵
Service Temperature	Class 1
Use Readiness Time	+5°C +25°C
Use Readiness Time	-20°C +80°C
Use Readiness Time	45 minutes
Use Readiness Time	7 days (Water Impermeability)
Use Readiness Time	3 days (Liquid 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.

ADVANTAGES

- Negatively and positively effective (1 bar negative - 1.5 bar positive)
- It has very high adhesion strength. It works together with the surface it adheres to,
- Permeable to water vapor and air,
- Resistant to freeze - thaw effect,
- It has high resistance against CO₂ ions,
- Used in drinking water tanks,

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





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. De- mir and wooden wedges on the surface should be removed and active water leaks, if any, should be repaired with **BETTOFIX** and gaps, 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 water immediately during application and becomes dull, 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 NP 100** Component B (liquid component) into a clean mixing bowl. Gradually add the powder component and mix with a mixing drill at 400-600 rpm. Mix for about 3-5 minutes until the mixture is homogeneous and rest for 2 minutes. Then mix again for 1 minute and make ready for application. Do not add water to the mixture.

MIXTURE AMOUNT

BETTOSEAL NP 100 Component A 25 kg
Powder **BETTOSEAL NP 100** Component
B 10 kg Liquid **Mixing density: 1.44 kg / liter**

APPLICATION METHOD

BETTOSEAL NP 100 is applied with a brush on a water saturated and damp looking surface. The material should be applied in 2 or 3 coats. 3-5 hours should elapse between each coat application. After the 1st coat reaches sufficient hardness, the 2nd coat can be applied. The application of each coat should be in opposite direction to each other.

IMPORTANT NOTE: The material becomes waterproof after 7 days. The material should be protected from direct sunlight, rain, frost and wind for 24 hours. The application surface temperature should be between +5°C - +30°C.

PACKAGING

BETTOSEAL NP 100 Component A 25 kg polyethylene reinforced paper bag
BETTOSEAL NP 100 Component B 10 kg plastic drum

EXPENDITURE

1. coat consumption 1.5 kg/m² mixture
2. Coat Consumption: 1.3 kg/m² mixture
3. Coat Consumption: 1.3 kg/m² mixture

SHELF LIFE

Under proper storage conditions, 1 year from the date of manufacture. **BETTOSEAL NP 100** Component B is stable 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 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 held responsible.

	
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1020-CPB-040 051200 DOP NO: 11114 EN 15042	
BETTOSEAL NP 100 Dual Component Fully Flexible Waterproofing Material Coating Application 2.2/8.2 (Cement and Polymer Dispersion Based, Fully Flexible, Applicable in Negative and Positive Direction Water Insulation Material)	
Water Vapor Permeability	CLASS I
Capillary Water Absorption and Water Permeability	Max. 0.1 kg/m ² .h.0.5
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



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