



## Bi-Aqua SD-90

### Acrylic Polymer Based, UV Resistant Elastic Waterproofing Material

**Bi-Aqua SD-90** is an acrylic resin based, single component, waterproofing material with a ready-to-use elastomeric property applied to terraces, roofs, precast streams, and facades.

### Areas of Usage

- Outdoors, in horizontal and vertical applications,
- On a sloping terrace roof
- Concrete, zinc and precast, rivers,
- Used on the north facades of buildings.

### Advantages

- Ready to use, with wire component,
- Apply by brush,
- It is not affected by the sun's heat, it is UV-resistant thanks to its white color,
- Maintain elasticity even at low temperatures,
- Easy to prepare and apply
- Provides high adherence,
- Paintable,
- Solvent-free,
- It is resistant to the freeze-thaw cycle.

### Technical Specification

Structure of Material	: Modified polymer resin.
Color	: White
Consistency	: Brush consistency
Density	: 1.36 kg / lt
Application Floor Temperature	: + 5°C / + 25°C
Service Temperature	: -20°C/+120°C
Elasticity	: %150
Surface Protection Time	: 4-5 hours

**Note:** Above values are given at +23°C and 50% relative humidity. High temperatures shorten the duration, lower temperatures prolong the duration.

### Preparation of Surface

The surface to be applied must be solid, cleaned of all kinds of oil, rust, paraffin, paint, bitumen residues and all loose parts which will prevent sticking to the floor. **Bianca Bia-Crete** repair mortars should be used for uneven surfaces. The new plastered (Absolutely without lime addition, with **Bi-Mix Latex**) and reinforced concrete surfaces should be expected to complete the curing period of 28 days. Corner and edges should be chamfered with **Bia-Crete HS-1040** and 4 cm diameter. Surface gaps can be repaired with **Bia-Crete** repair mortars. Towards the outlet, the flow of water must be ensured. Deep cracks should be filled with polyurethane mastic.

### Mixing and Primer Preparation

**Bi-Aqua SD-90** is a ready-to-use material. During primer application, add 50% water to the material and mix with a mixer of 400 - 600 rpm for 3 - 5 minutes. 1. During primer application, add 20% water to the material and mix with a mixer of 400 - 600 rpm for 3-5 minutes. 2. The coat should be applied without mixing with water.

### Coloring

**Bi-Aqua SD-90** is produced in white color. The can be colored with pigment if it does not exceed 5% of the amount of material. **Bi-Aqua SD-90** can be painted with acrylic based exterior paint after drying.

### Application Method

The prepared primer should be applied to the surface with a brush or roller (200 gr/m<sup>2</sup>). After drying the primer, the other layers should be applied so that a wet film thickness of 1 - 1,50 mm will be formed. Cracks, grout, corner and edge 1. After the application of the coat, 165 g of water should be supported with insulation or armure.

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### Points to Consider

**Bi-Aqua SD-90** is not suitable for water storage, swimming pool and basic insulation. Applied material should be protected from rain and frost during the first 24 hours. In applications, each layer thickness should not exceed 1 - 1,50 mm. Precautions should be taken on surfaces that need to be walked on. It must be reinforced with 165 gr net or armure. Wet and damp floors should not be applied. Drying times between layers should be considered.

### Consumption

For 1 mm wet film thickness: 1.36 kg / m<sup>2</sup>.  
For 1 mm dry film thickness: 1,48 kg / m<sup>2</sup>.  
In gutters and valley: 2 - 3 kg / m<sup>2</sup>.  
Roofs: 3 - 4 kg / m<sup>2</sup>.

### Packing

20,00 kg

### Shelf Life

It is 1 years from the date of manufacture in the appropriate storage conditions. **Bi-Aqua SD-90 Component B** freezes at temperatures below 0°C. Opened packages should be kept tightly closed in suitable storage conditions and used within 1 week.

### Storage

It should be stored in original unopened package, in cool and dry environment, protected from freezing. In short-term storage, maximum 3 pallets must be placed on top of each other and it must be shipped with the first-in first-out system. The pallets should not be placed on top of each other for long periods of storage.

### Security Precautions

Application areas should be ventilated. During the application, it must be used, in accordance with the Occupational Health and, Safety, the work clothes, protective gloves, goggles. Due to the irritant effects of curing materials, the components should not come into contact with the skin and the pore, in case of contact with plenty of soap and washed, if swallowed, seek medical advice immediately. Application areas should be ventilated and food and drinks stuffs should not be put into application areas. It should be stored at places where children can not reach it. For detailed information safety data sheet (Material Safety Data Sheet).

### Responsibility

The information given in this technical document is based on our scientific and practical knowledge. Orkim Ortaklar Boya Sanayi ve Pazarlama A.Ş. it is only responsible for the quality of the product. Orkim Ortaklar Boya Sanayi ve Pazarlama A.Ş. shall not be held liable for any consequences which may arise from outside of the written suggestions about where and how the product will be used and/or due to incorrect use. The responsibility of applying our product correctly is the responsibility of the user.