



Bi-Aqua WP-258 UV

Cement and Acrylic Based Two Component UV Resistant Flexible Waterproofing Material

Bi-Aqua WP-258 UV, cement and acrylic based, two component white, flexible waterproofing material developed to resist UV rays, to provide an effective barrier against waterborne salts and atmospheric gases.

Areas of Usage

- Indoors and outdoors, vertical and horizontal water from the direction,
- In prefabricated concrete stream and gutter insulation,
- Terraces can be left open under light load,
- In the direction of the water coming from the basic isolations,
- On retaining walls,
- In wet areas like WC, bathroom, balcony, kitchen,
- In swimming pools,
- Drinking and use water storage,
- In sea water channels,
- Where waterproofing and protection against salty waters are required,
- Protect concrete surfaces against carbonation and chlorine attacks,
- On the marina's walking routes,
- It is used for flowerpot insulation.

Advantages

- **Bi-Aqua WP-258 UV** at 1 mm thickness provides protection equal to concrete thickness at 80 mm thickness against carbonation.
- Water permeable, 7 bar pressure water resistant.
- Reduces the alkali-silica interaction in concrete top applications.
- Has excellent adhesion properties.
- Easy to prepare and apply.
- Can be applied with a brush or sprayer.
- The study period is long.
- It is white in color and resistant to UV rays.
- Resistant to light pedestrian traffic.
- Despite the waterproof feature; high water vapor permeability.
- High durability; It is resistant to the freeze-thaw cycle.
- It is resistant to atmospheric carbon dioxide and chlorine.
- For conventional waterproofing materials, a waiting period of 7 - 28 days is required on the concrete surfaces to be applied;
- **Bi-Aqua WP-258 UV** can be applied on a 24 hour concrete.
- Drinking water can be used in storage.

Technical Specification

Bi-Aqua WP-258 UV Component A	: Special cement, mineral fillers, polymer
Bi-Aqua WP-258 UV Component B	: Copolymer Acrylic Dispersion
Color	: White
Adhesive Strength	: 1,5 N / mm ²
Capillary Water Absorption	: 0.1 gr (after 4 hours)
Pressurized Water Resistance	: 7 bar (positive) (2 mm dry film thickness)
Application Floor Temperature	: +5°C / +25°C
Service Temperature	: -20°C/+80°C
Fresh Mixing Time	: 2 hours

Ready to Use Time (Mechanical Strength) : 2 days later
Ready to Use Time (Waterproof) : 7 days later
Coating (Plaster or Ceramic) : 3 days later
Mixture Density : 1.8 kg / lt

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. The iron and wooden blocks on the surface should be removed and repaired with gaps **Bia-Crete HS-1040**. If present, active water leaks must be stopped with **Bi-Aqua WP-Plug**; **Bia-Crete HS-1040** should be chamfered at least 4 cm radius on all corners and edges. The surface (especially reinforced concrete surfaces) should be moistened with water before application, but no pond formation allowed. During application, the coating material immediately loses water and appears to have a matte appearance, indicating that the surface is not sufficiently moistened or dried quickly. If such air is hot or the materials remain in the wind, only water up to 10% of component B may be added into the blended material for the first layers.

Preparation of Mortar

Bi-Aqua WP-258 UV Component B (liquid component) is emptied into a clean mixing cup. On the **Bi-Aqua WP-258 UV Component A White** (powder component) is added slowly while stirring with a mixer of 400 - 600 rpm. The mixture is stirred for about 3 - 5 minutes until it is completely homogeneous and allowed to setting for about 3 - 5 minutes. Then again 30 sec. are mixed and ready for application. If necessary, plastering can be done with the trowel. In this case the amount of **Bi-Aqua WP-258 UV Component B** (Liquid Component) to be used in the mixture should be reduced.

Mixing Rates

Bia-Aqua WP-258 UV	Component A	Component B
Mixture Amount	25 kg	8 kg
Mixed Density	1,80 kg/lt	

Application Information

The prepared **Bi-Aqua WP 258 UV** mixture is applied in two or three coats with the help of an insulating brush. The direction of brush application on each floor should be perpendicular to each other. The waiting time between layers varies according to the ambient conditions. For the second and third layer application, the previous layer has to be completely dried. It is recommended to apply spraying method for large areas.

Important Note: **Bi-aqua WP-258 UV** forms a protective and water impermeable coating. The water resistance of the **Bi-Aqua WP-258 UV** under water depends on the thickness of the coating.

- For 3 bar continuous water pressure resistance: 4 kg / m²
- For 7 bar continuous water pressure resistance: 6 kg / m² material usage is required.

Attention: Do not apply to Dry Concretes.

Consumption

- 1st floor 1,50 kg / m²
- 2nd floor 1.50 kg / m²
- 3rd floor 1.00 kg / m²

Packing

Bi-Aqua WP-258 UV Component A (white) 25,00 kg polyethylene reinforced kraft bag;
Bi-Aqua WP-258 UV Component B 8,00 kg plastic drum.

Shelf Life

It is 1 years from the date of manufacture in the appropriate storage conditions. **Bi-Aqua WP-258 UV Component B** freezes at temperatures below 0°C. Opened packages should be kept tightly closed in suitable storage conditions and used within 1 week.

Security Precautions

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.

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