

Waterproofing Systems / Cement + Acrylic Based

AQUACEMENT® UV500

Double Component Super Elastic Waterproofing Material – UV Resistant (White)

Approved by METU Chemical Engineering Dept.
according to BS 6920 Standard
for potable water contact compatibility
Report no: 2009.03.04.718/03

DESCRIPTION

White cement and acrylic based, **super – elastic**, double component waterproofing material with **advanced UV resistance**. Components must be mixed to provide waterproofing. Resistant to **positive** water pressure.

APPLICATION AREAS

- Indoor and outdoor,
- Horizontal and vertical applications,
- Waterproofing of non trafficable inclined terrace roofs and balconies,
- Wet areas such as bathrooms and kitchens,
- Water tanks, cisterns, swimming pools,
- Waterproofing of groundwork, retaining walls and basements,
- Irrigation canals, manholes, concrete pipes,
- Facilities such as thermal springs, Turkish baths,
- Waterproofing of concrete flower receptacle.

TECHNICAL PROPERTIES

Appearance	A: White colored fine powder B: White colored liquid
Density	A: ~1.30 kg/L B: ~1.03 kg/L
Mixture Ratio	10 kg liquid / 20 kg powder
Pot Life	3 hours
Application Temperature	Between +5°C and +35°C
Flexibility	Very good
Resistance to Pressurized Water	5 bars positive (DIN 1048)
Capillary Absorption and Water Permeability	$w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (EN 1062-3) $0.018 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (TS 4045)
Resting Period	3 – 5 minutes
Time to Use	Mechanical Strength: 3 days Water Impermeability: 7 days
Time to Cover	3 days
Service Temperature	Between -20°C and +80°C

ADVANTAGES

- Elastic, does not shrink and crack, **resistant to UV**.
- Provides safe waterproofing of terrace roofs which will not be coated and will be exposed to light loads.
- Easy to apply on horizontal and vertical surfaces with a brush, roller, trowel or spraying machine.
- Provides seamless and jointless waterproofing.
- Provides high-performing waterproofing.
- Water vapor permeable, allows the concrete to breathe.
- Non-toxic, perfect for water tanks.
- Forms a perfect waterproofing layer under ceramic tiles and screed thanks to its flexibility and high adhesion strength. Protects concrete surfaces from carbonization and chloride.

CONSUMPTION

1.75 kg/m² on each layer for 1 mm thickness. It is recommended to apply minimum 2 layers (3.5 kg/m²). For higher protection, it is recommended to apply 3 layers.

PACKAGING

Component A: 20 kg kraft bags
Component B: 10 kg plastic jerrycans

APPLICATION**PREPARATION OF THE SURFACE**

- The surface must be cured.
- The surface must be clear of materials that prevent bonding, such as dust, oil, tar, paint, silicone, curing materials, detergents and mold oils.
- Repair the weak parts of the concrete, remove poorly adhered plasters; make the surface sound and solid. Repair the static cracks in the building with a plaster with **AQUALATEX** or **REPAIRGROUT EXPAN High Strength Shrinkage-Free Grout Mortars**. Fill the dynamic (moving) cracks with FIXA's appropriate MS, hybrid or polyurethane sealants. Block water incoming holes with **AQUASTOP**.
- Saturate the surface with water and keep it moist during the application.
- Bevel the corners.

PREPARATION OF THE MORTAR

- Put the content of Component B (10 kg) in a clean plastic bucket. Add the content of Component A (20 kg) into the liquid slowly and mix preferably with a low speed drill with 400-600 rpm until there are no lumps. Do not add water. Leave the mixture to mature for 3 – 5 minutes, mix again for 30 seconds before use.
- Use the mortar in 3 hours. Do not use if this duration is exceeded.

APPLICATION

- Apply AQUACEMENT UV500 Double Component Super Elastic Waterproofing Material on the surface at least in 2 – 3 layers that are perpendicular to each other. Wait at least 5 - 6 hours between the layers, at +20°C, this duration should not exceed 24 hours. Apply the second layer before the first layer is completely dry. In case the first layer is dry, moisten the surface again before the application of the second layer. Protect the surface against sunlight and fast drying for 3 days after the application of the second layer.
- Use **IMPERMO Waterproofing Mesh** between the layers to increase the bearing capacity of the product.
- It gains mechanical strength in 3 days, becomes water impermeable in 7 days. It reaches its final strength in 14 days.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind.
- Do not add water to the product.
- Always add the powder into the liquid component.
- Wet film thickness must be maximum 2 mm in a single layer.



Technical Data Sheet (TDS)

Form No: 5.01 TDS Aquacement UV500
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SHELF LIFE

Expires in 12 months. Store unopened packages in dry environment, stake maximum 10 on a pallet. Shake the liquid component before use and protect against frost.

HEALTH AND SAFETY

As with all chemical products, avoid contact with food products, skin, eyes and mouth during use and storage. During the application, use work clothes, protective gloves and glasses in accordance with the occupational and worker health rules. Consult a doctor if accidentally swallowed. In case of contact with skin, rinse with water. Store out of the reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Construction Chemicals Ltd. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.