

Waterproofing Systems / Cement + Acrylic Based

AQUACEMENT® 2K 250

Double Component Super Elastic Waterproofing Material

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

DESCRIPTION

Cement and **acrylic based, super-elastic**, double component waterproofing material. Components must be mixed to provide waterproofing. Resistant to **positive** water pressure.

APPLICATION AREAS

- Indoor and outdoor,
- Horizontal and vertical applications,
- Water tanks and swimming pools (under the coating),
- Waterproofing of groundwork, retaining walls and basements,
- Waterproofing of terrace roofs and balconies (under the coating),
- Cisterns, irrigation channels, manholes, concrete pipes,
- Wet areas such as bathrooms and kitchens,
- Facilities such as thermal springs, Turkish baths,
- Waterproofing of concrete flower receptacle,
- Bonding coating materials, ceramic and granit.

TECHNICAL PROPERTIES

Appearance	A: Grey colored fine powder, B: White colored liquid
Density	A: ~1.30 kg/L, B: ~1.03 kg/L
Mixture Ratio	10 kg L / 25 kg powder
Pot Life	30 minutes
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 kg/(m ² .h ^{0.5}) (EN 1062-3) 0.018 kg/(m ² .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

- 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.
- Very flexible, does not shrink or crack.
- 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 (4.5 - 5.5 kg/m²).

PACKAGING

Component A: 25 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 (25 kg) into the liquid slowly and mix preferably with a low speed drill with 400-600 rpm until there are no lumps. Leave the mixture to mature for 3 - 5 minutes, mix again for 30 seconds before use.
- Use the mortar in 30 minutes. Do not use if this duration is exceeded.

APPLICATION

- Apply **AQUACEMENT 2K 251 Double Component Super Elastic Waterproofing Material** on the surface at least in 2 layers that are perpendicular to each other. Wait at least 5 – 6 hours between two 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.
- Protect against punctures and impacts until it is over-coated.

CAUTION

- Avoid application below +5°C and above +35°C.
- Avoid application on frozen areas, on areas under risk of freezing in 24 hours or on areas open to direct sunlight or wind.
- Do not add extra water
- Always add the powder component in the liquid component.
- During the application, wet film thickness should not exceed 2 mm per layer.



Technical Data Sheet (TDS)

Form No: 5.01 TDS Aquacement 2K 251
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SHELF LIFE

Expires in 12 months. Store unopened packages in non-humid environments, stack 10 packages on a pallet. Shake the liquid component before use and protect it against freeze.

HEALTH AND SAFETY

As with all chemical products, contact with food, skin, eyes and mouth should be avoided during usage and storage. During the application, work wears, protective gloves, goggles and mask should be used according to the work place health regulations. If swallowed by accident, consult a doctor. In case of contact with skin, rinse with water. Keep out of 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 $23\pm 2^{\circ}\text{C}$ temperature and $50\pm 5\%$ 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.