

Waterproofing Systems / Cement + Acrylic Based**AQUACEMENT® 2K 250**

Double Component Super Elastic Waterproofing Material

Approved by METU Chemical Eng.Dept.
for drinking water contact compatibility.
Report no: 2009.03.04.718/02**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 granite.

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 liquid / 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	$w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$ (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, Waterproofness: 7 days
Time to Cover	3 days
Service Temperature	-20°C / +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 water impermeability.
- Very flexible, does not shrink or crack
- Water vapor permeable, allows the concrete to breathe.
- Non-poisonous, perfect for water tanks
- Forms a perfect waterproofing layer under ceramic and screed thanks to its flexibility and high bonding property
- 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 which prevent bonding, such as dust, oil, tar, bitumen, paint, silicone, curing agents, detergents and mold release oils.
- Weak parts of the concrete must be repaired, plasters that are not adhered well must be removed, the surface must be smooth and sound, static cracks on the building must be repaired with a plaster containing **AQUALATEX** or **REPAIRGROUT EXPAN High Strength Shrinkage Compensated Repair Mortar**. Dynamic (moving) cracks must be repaired with one of FIXA's appropriate MS, hybrid or polyurethane based sealants. The holes with water outflow must be filled with **AQUASTOP**.
- The surface must be saturated with water and must be kept moist during the application.
- Corners should be beveled properly

PREPARATION OF THE MORTAR

- Put the content of Component B (10 kg) in a clean plastic pot. 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.
- The mixture in the pot must be used within 30 minutes. In case this duration is exceeded, the mortar should not be used.

APPLICATION

- AQUACEMENT 2K 250 Double Component Super Elastic Waterproofing Material is applied on the surface at least in 2 layers that are perpendicular to each other. You must wait at least 5 - 6 hours between two layers, at +20°C, this duration should not exceed 24 hours. Second layer must be applied before the first layer is completely dry. In case the first layer is dry, the surface must be moisturized again before the application of the second layer. The surface must be protected against sunlight and fast drying for 3 days after the application of the second layer.
- **IMPERMO Waterproofing Mesh** is recommended to be used 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.
- It has to be protected against 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.

SHELF LIFE



Technical Data Sheet (TDS)

Form No: 5.01 TDS Aquacement 2K 251
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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 our tests in accordance with international standards and our experience, at $23 \pm 2^{\circ}\text{C}$ temperature and $50 \pm 5\%$ relative humidity. These values may vary depending on ambient conditions. High temperatures shorten the durations, low temperatures extend them. Before starting the application, whether the product is suitable for the application and purpose should be tested by the user. FIXA Construction Chemicals is not responsible for application errors that may occur if the product is used outside of its intended purpose or if the application conditions and recommendations mentioned above are not followed. This Technical Data Sheet is valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that a new version is published. It is the user's responsibility to check the currency of the document. For more information, please contact our sales department.