

Waterproofing Systems / Bitumen + Cement Based**BITUMFIX® ER 2K**

Bitumen – Rubber and Cement Based Double Component Waterproofing Material

DESCRIPTION

Polymer modified bitumen rubber based, cement cured, double component, elastic and waterborne waterproofing material. BITUMFIX ER 2K is a thixotropic material which is flexible after curing and has high adherence properties and long aging time.

APPLICATION AREAS

- Indoor and outdoor,
- Horizontal and vertical surfaces,
- Protecting and waterproofing groundwork, retaining walls and shear walls,
- Places such as basements and cellars,
- Underneath the coatings in terrace insulation.

TECHNICAL PROPERTIES

Appearance	A: Brown polymer-modified bitumen-rubber (turns black after drying) B: Cement-based grey powder
Density	A: ~ 1.15 kg/L B: ~ 1.45 kg/L
Mixture Density	1.20 kg/L
Mixture Ratio	24 kg liquid / 8 kg powder
Solid Content	68% ±2 (mixture)
Application Temperature	Between +5°C and +35°C
Pot Life	~ 1 hour
Curing Time	Dry to Touch: 1 – 4 hours Complete Drying: 8 – 24 hours Test: 8 days
Service Temperature	Between -10°C and +80°C

ADVANTAGES

- Provides seamless and jointless waterproofing.
- Economical.
- Provides good adherence on dry and slightly moist surfaces.
- Offers high performance in waterproofing.
- Permanently elastic, fills capillary cracks.
- Resistant to positive water pressure.
- Safe to use indoor since it does not contain flammable or toxic materials.
- Resistant to salts and weak acids.
- Plaster and mortar can be applied on it, provided that it is sandblasted.
- Easy to prepare and apply. Covers non-structural cracks easily.
- Thermal insulation boards such as EPS, XPS can be bonded directly on BITUMFIX ER 2K.
- Cold applied, dries quickly

CONSUMPTION

1 - 1.5 kg/m² on each layer for 1 mm thickness. Minimum of 2 – 3 coats is recommended.

PACKAGING

Sets of 32 kg plastic buckets (Liquid component in plastic bucket of 24 kg and powder in bag of 8 kg)

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.
- Repair the weak parts of the concrete, remove the plasters that are not adhered well, make the surface smooth and sound, repair the static cracks on the building with a plaster containing **AQUALATEX** or **REPAIRGROUT EXPAN High Strength Shrinkage Compensated Repair Mortar**. Repair the dynamic (moving) cracks with one of FİXA's appropriate MS, hybrid or polyurethane based sealants. Fill the holes with water outflow with **AQUASTOP**.
- Bevel the corners properly.
- Apply one layer of **BITÜMFIX WP BASIC Bitumen Based Membrane Primer** to increase the adherence of BITÜMFIX W to the surface. Wait for the primer to dry before the application.

MIXTURE

Add the 8 kg Component B (powder) slowly into the 24 kg Component A (bitumen) in its original packaging. Mix with a low-speed mixer until a homogeneous, lump-free consistency is achieved. Do not add any water.

APPLICATION

- Apply BITÜMFIX ER 2K to the surface in at least two layers with a bitumen brush, trowel, or spray machine after the primer has dried.
- It dries in 2 hours depending on weather conditions. Do not apply the second layer before the first one is completely dry.
- Apply cold. It can be applied on moist or slightly moist but not wet surfaces.
- Use **IMPERMO Waterproofing Mesh** between the layers to increase the load bearing capacity.
- Before backfilling the foundation excavation, protect the surface of BITÜMFIX ER 2K with drainage boards and thermal insulation panels to prevent damage during backfilling. If thermal insulation boards such as XPS are to be used on shear walls or terrace floors, the material itself may be used as an adhesive.
- Materials such as excavation waste and construction debris are not suitable for foundation backfilling. Any water that may accumulate in the foundation pit must be properly drained.
- Protect against impacts until it is covered.
- Do not apply in wet weather and in temperatures below +5°C.

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.
- It is not suitable for waterproofing of potable water tanks and swimming pools.
- Do not use expired product.

SHELF LIFE



Technical Data Sheet (TDS)

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Expires in 12 months. Store unopened packages in a dry environment between +5°C and +25°C. Shake well before use. Protect against frost.

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±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.