

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 isolating groundwork, retaining walls and curtain walls,
- Places such as basements and cellars,
- Underneath the coatings in terrace insulation.

TECHNICAL PROPERTIES

Appearance	A: Brown polymer modified bitumen rubber (black after drying) B: Cement based gray powder
Density	A: ~ 1.05 kg/L, B: ~ 1.45 kg/L
Mixture Density	~ 1.15 kg/L
Mixture Ratio	22 kg liquid / 8 kg powder
Solid Ratio	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
Service Temperature	-10°C / +80°C

ADVANTAGES

- Economical.
- Provides good adherence on dry and slightly moist surfaces.
- Offers high performance in waterproofing.
- Permanently elastic, fills capillary cracks.
- Provides seamless and jointless waterproofing.
- 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 shrinkage cracks easily.
- Thermal insulation boards such as EPS, XPS can be bonded directly on BITUMFIX ER 2K.
- Cold applied, dries quickly.

CONSUMPTION1.5 kg/m² to obtain a 1 mm dry film thickness.

Usage Areas	Dry Film (mm)	Consumption (kg/m²)
Areas exposed to ground moisture	3	4.5
Temporary isolation against pressurized water	3	4.5
Areas exposed to continuous pressurized water	4	6

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 Grout Mortar**. Repair the dynamic (moving) cracks with one of FIXA's appropriate MS, hybrid or polyurethane based sealants. Fill the holes with water outflow with **AQUASTOP**.
- Bevel the corners properly.
- Apply one layer of **BITUMFIX WP BASIC Bitumen Based Membrane Primer** to increase the adherence of BITUMFIX ER 2K to the surface. Wait for the primer to dry before the application.

MIXTURE

- Add 8 kg of component B (powder) slowly in 22 kg component A (in its own packaging). Mix with a low speed mixer until it is homogenous. Do not add water.
- Use the mixture in 1 hour.

APPLICATION

- Apply BITUMFIX ER 2K on to the surface in minimum two layers with a bitumen brush, trowel or spraying machine when the primer is dry.
- It dries in 1 – 2 hours depending on weather conditions. Do not apply the second layer before the first one is completely dry.
- Apply cold. Apply on moist or slightly moist surfaces that are not wet.
- Use **IMPERMO Waterproofing Mesh** between the layers to increase the load bearing capacity.
- Protect the surface of BITUMFIX ER 2K with drainage plates and thermal insulation plates before filling the foundation pit, to prevent damage during filling. If thermal insulation plates such as XPS will be used on curtain walls or terrace floors, the material itself can be used for adhesive purposes.
- Materials such as excavation waste and construction rubble are not suitable for filling the foundation pit. Drain any water that may fill the foundation pit.
- Protect against impacts until it is covered.
- Do not apply in rainy 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 isolation of potable water tanks and swimming pools.
- Do not use expired material.

PACKAGING

Sets of 30 kg plastic buckets (22 kg liquid component in plastic bucket and 8 kg powder in bag)

SHELF LIFE

Expires in 12 months. Store unopened packages. Shake the liquid component before use and protect it 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 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.