

Waterproofing Systems / Bitumen + Polyurethane Based

BITUMFIX® PU 1K

Bitumen and Polyurethane Based Single Component Waterproofing Material

DESCRIPTION

Bitumen and polyurethane based, **single component**, protective waterproofing material which is cured with the moisture in the air. Thanks to the polyurethane in its content, it bonds strongly to the surface and generates a layer that is more resistant to water and moisture.

APPLICATION AREAS

- Outdoor,
- Horizontal and vertical surfaces
- On surfaces of materials such as concrete, stone, fiber cement and metal,
- Waterproofing the foundation and shear walls of reinforced concrete structures against ground moisture and seepage water,
- Canals, flumes and rain creeks (excluding PVC based rain gutters)
- Underneath the coatings in waterproofing of balconies, terraces and green roofs.

TECHNICAL PROPERTIES

Appearance	Black colored emulsion
Liquid Density	~ 1.30 kg/L
Application Temperature	Between +5°C and +35°C
Viscosity	2500 – 3500 cP (25°C)
Solid Content	80 – 85%
Ignition Point	>30°C
Bonding to Concrete	~ 2 N/mm ²
Tensile Strength	~ 1.5 N/mm ²
Elongation at Break	>400 (20°C)
Water Vapor Permeability	25.8 g/(m ² .d) (TS EN ISO 7783:2011)
Dry Time Between Layers	~ 12 hours
Walking Time	~ 72 hours
Service Temperature	Between -30°C and +80°C

ADVANTAGES

- Ready to use and easy to apply.
- Does not sag on vertical surfaces.
- Has high adherence to the surface. Adheres very well even on old coatings.
- Forms a protective layer on the surface and provides long-term protection.
- Has high tensile, tear, impact and abrasion resistance and has excellent mechanical properties.
- Highly resistant to chemicals, mold and extreme weather conditions
- Provides seamless and jointless waterproofing.
- Covers shrinkage cracks easily, elastic material.
- Resistant to plant roots

CONSUMPTION

1.5 – 2 kg/m² on each layer (Recommended to apply at least two layers)

PACKAGING

25 kg tin buckets

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.
- The surface should never be wet or damp. Make sure that the surface is completely dry. Otherwise the product will foam and swell. The moisture content of the surface should be maximum 5%.
- 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 FIXA's appropriate MS, hybrid or polyurethane based sealants. Fill the holes with water outflow with **AQUASTOP**.
- If cement based mortar is used in the repair or if application is to be made on fresh concrete floors, wait to cure for at least 28 days and check by measuring that there is no moisture on the floor.
- Bevel the corners properly.
- Apply one layer of **POLAN A Polyurethane Floor Primer** to increase the adherence of BITUMFIX PU 1K to the surface. Wait approximately 4 – 5 hours for the primer to dry before the application.

APPLICATION

- Mix the material with a low speed mixer until it becomes homogeneous and apply to the surface in several layers with a bitumen brush, roller, trowel or spraying machine. For applications between layers, the surfaces should be applied perpendicular to each other.
- Apply in thin layers. It should not be a single layer and thick application should be avoided. This ensures the exit of air bubbles.
- Do not apply the next layer before the previous one is completely dry. Drying time between layers is approximately 12 hours. Do not wait more than 24 hours between the layers. Final curing takes place in 5 – 7 days depending on weather conditions.
- Use **IMPERMO Waterproofing Mesh** between the layers to increase the load bearing capacity.
- Protect against impacts until it is covered.
- Do not apply in rainy weathers 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.
- The surface temperature must not be below +5°C during application.
- Clean tools and equipment with industrial solvents immediately after application.
- After using the spraying machine, clean with industrial solvents, but avoid solvent to remain in the machine for subsequent use.
- It is not suitable for waterproofing of potable water tanks and swimming pools.
- Consume the entire opened package.
- Since it contains flammable material, do not smoke or light a fire during application. Do not use tools and machines that may cause sparks.



Technical Data Sheet (TDS)

Form No: 5.01 TDS Bitümfix PU 1K
Rev: 02 – 01/2026

Date
09 June 2026

Page
3 / 3

SHELF LIFE

Expires in 12 months. Store unopened packages between +5°C and +25°C. Stir well 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 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.