



ONE-COMPONENT, SOLVENT-FREE, QUICK-DRYING, LOW-SHRINKAGE, HIGH-YIELD, HIGH FLEXIBILITY BITUMEN WATERPROOFING EMULSION CONTAINING POLYSTYRENE SPHERES AND RUBBER GRANULES.



PRODUCT DESCRIPTION

Bit-Seal 1K Extra is a solvent-free paste consisting of selected water-emulsified bitumen, special fine-graded aggregates and admixtures. Bit-Seal 1K Extra thixotropic consistency makes it easy to use for waterproofing even vertical and sloping surfaces. When completely dry Bit-Seal 1K Extra forms a waterproof plastic coating that is resistant to re-emulsifying after prolonged immersion in water, even when slightly acid or alkaline, and resistant to aggressive agents present in the soil. Bit-Seal 1K Extra meets the requirements for polymer modified bituminous thick coatings, in compliance with EN 15814.

FIELD OF APPLICATION

For waterproofing and protecting:

- Waterproofing foundations.
- Waterproofing bearing walls.

SUITABLE SUBSTRATES

- Cold waterproofing masonry or concrete poured over bare ground.
- Waterproofing flat or curved surfaces on structures below ground level, such as man-made tunnels and underpasses.
- Waterproofing horizontal concrete structures below screeds isolated with PE sheets.

LIMITATIONS

- Do not apply if the temperature is lower than +5°C or on freezing surfaces or if the temperature is higher than +30°C.
- Do not apply if it is about to rain.
- Do not dilute with organic solvents.
- Do not apply on the surface of containers used for storing edible products.
- Do not use to waterproof structures in contact with organic solvents or mineral, vegetable or animal fats.
- Do not use to waterproof structures exposed to UV rays.
- Do not use to waterproof structures with water under pressure.
- Apply a protective drainage layer to protect before infilling.

APPLICATION PROCEDURE

A) Preparing the substrate

The substrate to be treated must be mechanically robust and clean. Remove all cement laitance, traces of powder, flaky parts, grease, oil, and form release agents by sandblasting or washing down with a high-pressure water pump. If the substrate to be waterproofed and protected with Bit-Seal 1K Extra is in poor condition, remove the damaged parts manually or mechanical abrasion by using a hydro-demolition system or a hydro-scarified. The last technique, which uses high-pressure water, is recommended because the reinforcement rods are not damaged. The structures that are not subject to vibration could cause small cracks in adjacent concrete. Once the rust has been entirely removed by sandblasting, repair with a pre-blended repairing mortar. Absorbent surfaces to be treated with Bit-Seal 1K Extra must be primed with Bit Seal Primer. Existing floors, which are covered in tiles, must be well bonded to the substrate, and the surface of tiles must be free of substances that could compromise the adhesion of Bit-Seal 1K Extra, such as oil, grease, paint, wax, etc. In order to remove material that could affect the adhesion of Bit-Seal 1K Extra, clean the floor with detergents and water. After this, the surface must be treated with Bit Seal Primer.

B) Preparing the product

Ready to be used.

C) Applying the product

Bit-Seal 1K Extra must be applied in two layers with a brush or a long-haired roller. Before applying the second layer, wait until the first coat is dry, making sure the product becomes darker with a matt finish. The second layer is applied diagonally to the first one. The final thickness of the two layers of Bit-Seal 1K Extra must be

at least 0.8 mm to create a solid, flexible, and continuous film. Ensure there are no interruptions in the film caused by imperfections in the substrate.

COVERAGE / CONSUMPTION

The approximate consumption is 1 – 1.5 kg/m²

PACKAGING

Bit-Seal 1K Extra is supplied in:

- 5 kg plastic buckets
- 20 kg plastic buckets

SHELF LIFE-STORAGE

Original sealed packaging of this product is guaranteed to be of first quality for 24 months if stored in a dry area. The high humidity will reduce the shelf life of the bagged product.

SAFETY INSTRUCTION

Bit-Seal 1K Extra is not considered dangerous according to the current regulations regarding the classification of mixtures. However, it is recommended to take the usual precautions for handling chemicals and wear protective goggles and gloves. For further and complete information about the safe use of our product, refer to the latest version of our Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA

Product identity

Consistency	Paste
Color	Black
Density (g/cm ³)	1.25
pH	10
Brookfield viscosity (mPa·s)	45,000
Dry solids content (%)	approx. 80

Application data (at +23°C and 50% R.H.)

Minimum filming forming temperature	+5°C
Recommended application temperature	+5°C to +35°C
Waiting time between the coats on walls	approximately 60 minutes
Waiting time between the coats on the floor	3-4 hours
Complete drying	12 hours

Final performances

Static crack-bridging at +4°C	Class CB1
Resistance to rain	Class R2
Reduction in thickness when dry	approx. 25%
Impermeability to water in pressure on a 1 mm open crack	Class W1
Compressive strength	Class C1



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