



TWO-COMPONENT, SOLVENT-FREE, QUICK-DRYING, HIGH FLEXIBILITY BITUMEN WATERPROOFING EMULSION CONTAINING CELLULOSE FIBERS.



## PRODUCT DESCRIPTION

Bit-Seal 2K is a solvent-free paste consisting of selected water-emulsified bitumen, special fine-graded aggregates and admixtures. Bit-Seal 2K thixotropic consistency makes it easy to use for waterproofing even vertical and sloping surfaces. When completely dry Bit-Seal 2K 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 2K 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 mix with solvents;
- Do not use if the temperature is lower than +5°C or higher than +30°C;
- Do not use in damp or rainy weather;
- Do not use to waterproof surfaces exposed to UV rays;
- Do not use with water in counter-pressure;
- Do not use if there is no protective drainage layer;
- Do not use if the drainage layer subjects the waterproofing layer to linear or spots load.

## 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 2K 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 2K 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 2K, such as oil, grease, paint, wax, etc. In order to remove material that could affect the adhesion of Bit-Seal 2K, clean the floor with detergents and water. After this, the surface must be treated with Bit Seal Primer.

### B) *Preparing the product*

The two components which form Bit-Seal 2K are supplied pre-dosed. Mix the thixotropic emulsion component A at a low speed (400 rev/min) until it becomes liquid. Add the powder component B while mixing and continue mixing until a smooth, lump-free blend is obtained. Once blended, the product has a pot life of approximately 2 hours at +23°C.

### C) *Applying the product*

Bit-Seal 2K 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 2K 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/m<sup>2</sup>

## PACKAGING

Bit-Seal 2K is supplied in:

- 5 kg plastic buckets A+B
- 20 kg plastic buckets A+B.

## 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 2K 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 <sup>3</sup> )	1.25
pH	10
Brookfield viscosity (mPa·s)	45,000
Dry solids content (%)	approx. 70

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

Mixing ratio	18 : 2
Pot life	approx. 2 hours
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	48 hours

### Final performances

Static crack-bridging at +4°C	Class CB2
Resistance to rain	Class R3
Reduction in thickness when dry	approx. 20%
Impermeability to water in pressure on a 1 mm open crack	Class W2A
Compressive strength	Class C2A



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