

## TECHNICAL DATA SHEET (TDS)

**Hydrophilic sealing bar made of sodium bentonite and butyl rubber for preventive sealing of construction joints and as a system component for bentonite mats. Mechanical fixation can be performed with BeSealed fixing glue for water swellable sealing profiles or by nailing.**

### USE

- Developed for preventive sealing of construction joints in concrete and reinforced concrete construction. Alternatively BENTOBAR+ can be applied as a system component for bentonite mats. It seals against non-pressing and pressing ground water up to 6 bar.
- To ensure a continuous section of the sealing bar, an overlap of 5 to 10 cm is applied and the bar ends are firmly pressed together. A minimum concrete coverage of 7-8 cm on each side is required.
- BENTOBAR+ can be applied both vertically and horizontally, but under no circumstances should it be used in expansion joints.

### DESCRIPTION

- Hydrophilic swelling bar based on high quality butyl rubber and sodium bentonite. BENTOBAR+ retains its shape after 3 wet and dry cycles (MPA certified). However, at a certain point, partly washing out will be initiated. The benefit of this phenomenon on the other hand is that concrete voids/cracks are filled up.
- BENTOBAR+ has a good resistance to a wide range of chemicals. Final confirmation about compatibility under specific conditions can be obtained from our technical dept.

### APPLICATION

- Place BENTOBAR+ on a smooth and dust free surface (concrete).
- Do not install BENTOBAR+ during heavy rainfall, as it may result in swelling before the concrete has been poured on the sealing bar. Avoid all contact with water before concrete casting.
- BENTOBAR+ is positioned between the inside and outside reinforcement.
- BENTOBAR+ can be fixed by BeSealed fixing glue for water swellable sealing profiles or by gun nailing. For vertical applications, the use of a wire mesh is recommended. Mesh and profile are then fixed by gun nailing. More detailed information on the application of BeSealed fixing glue can be found in a separate TDS.
- Sealing bars that are damaged, already swollen, or of which the geometry has changed may not be installed.
- For salt water environment, in polluted water conditions and in contact with manure and slurry, we recommend BENTOBAR+ SW (See separate TDS).

## TECHNICAL DATA\*

Volume expansion in rain water	400 %
Volume expansion in concrete water	150 %
Colour	Black / green
Density	1.43 g/cm <sup>3</sup>
Swelling pressure when encapsulated	Approx. 1.8 N/mm <sup>2</sup>
Resistance to hydrostatic pressure	Tested up to 4 bar
Bending radius on the corners	50 mm
Temperature range	0° - 50°C
Chemical resistance	Good overall chemical resistance, but we advise to be careful with aromatic oils and fuels, vegetal oils and strong aromatic solvents. Contact our sales department for detailed specific information.

\* *indicative values – no specifications*

## SIZES AND PACKAGING



Size	Roll	In a box	Boxes / pallet
20 x 25 mm	5 m	6 x 5 m	36

## CERTIFICATES

Detailed reports and certificates available on request at [info@besealed.com](mailto:info@besealed.com)

## SAFETY

The safety datasheet is available on request at [info@besealed.com](mailto:info@besealed.com)