

TECHNICAL DATA SHEET

A hydrophilic waterstop based on high quality sodium bentonite and butyl rubber.

Preventive sealing of construction joints.



I. Applications

TEKINJECT BENTOSWELL is hydrophilic waterstop that can be applied both vertically and horizontally, but under no circumstances should it be used in expansion joints. Apply on a smooth and dust-free concrete surface. To ensure a continuous section of the sealing bar, an overlap of 5 to 10 cm is applied and firmly press the ends together. Do not install during rainfall. TEKINJECT BENTOSWELL is suitable for sealing of

- Preventive sealing of construction joints.

II. Properties

- 400% free volume expansion in rain water.
- 150 % free volume expansion in concrete water.
- Resistant to permanent water pressure of 6 bar (60m water column).
- Swelling pressure when encapsulated: Approx. 1,8 N/mm².
- Very good swelling capacities in highly alkaline environments.
- Good chemical resistance to acids, alkalis and most aqueous solutions but caution is advised with aromatic oils and fuels, vegetable oils and strong aromatic solvents.
- Excellent UV and ozone resistance. Avoid long term exposure to direct sunlight.

III. Technical Data

- Typical values:

Color	Black
Volume expansion in rain water	400%
Volume expansion in concrete water	150%
Storage temperature	Between -25 °C and 75 °C
Density	1,43 g/m ³
Swelling pressure when encapsulated	Approx. 1,8 N/mm ²

- Standard dimensions:

TEKINJECT BENTOSWELL is standard available in: 20 x 25 mm and in 20 x 10 mm.

IV. Processing

TEKINJECT BENTOSWELL need to be applied on a dry and smooth concrete surface. In case the surface is very un-levelled or wet, the construction joint should be additionally smoothed out with swelling sealant.

Place the TEKINJECT BENTOSWELL in the middle of the construction joint (between the inner and outer reinforcement). It is advisable to allow at least 8 cm of concrete on both sides of the expanding sealant to prevent cracking of the concrete.

Fixation of the TEKINJECT BENTOSWELL on the concrete surface can be done using adhesive and/or nails every 20 to 25 cm. The ends of the swell strip should be placed with an overlap of 5 to 10 cm.

For more details see the application manual of the TEKINJECT BENTOSWELL.

V. Packaging

TEKINJECT BENTOSWELL 20 x 25 mm: Roll 10 m
3 x 10 m per carton box
32 boxes per pallet (960 m per pallet)

TEKINJECT BENTOSWELL 20 x 10 mm: Roll 10 m
5 x 10 m per carton box
63 boxes per pallet (3.150 m per pallet)

Shelf life

24 months after production date in the original, unopened and undamaged packaging, according to the storage instructions of each component (see technical data of this sheet). If the following recommendations are not followed, the shelf life of the material cannot be guaranteed. Certainly needs to be stored in a dry place.

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