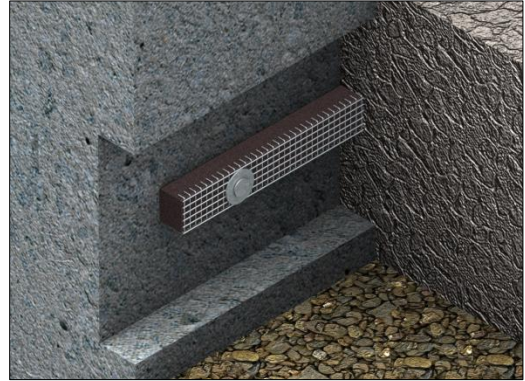# KARTA TECHNICZNA

SEALING FORBENT S EXPANSION TAPE

PRODUCT DESCRIPTION

Forbent S - tape made of natural sodium bentonite, rubber and additives, expanding under the influence of moisture and water. Properly concreted, by increasing the volume it fills cavities and gaps in concrete, it effectively seals the working gaps against the penetration of liquids under pressure up to 20 mH2O.

APPLICATION

The expansion tapes are designed for sealing horizontal and vertical working gaps in concreting exposed to moisture and groundwater under hydrostatic pressure up to 0.2MPa, including drinking water tanks. They can also be used as seals in joints of old and new concrete and reinforced concrete structures, prefabricated joints, and sealing of installation passages through the construction partitions.

REFERENCE DOCUMENTS

- Technical catalogue *Sealing systems part 2*
- ITB (Institute of Building Technology) Technical Approval No. AT-15-9475/2015
- Hygienic Certificate of PZH No. HK/W/0094/01/2015

FITTING METHOD

Before installing the Forbent S expansion tape, clean and dry the substrate. Place the tape in the axis of the future joint, adjusting its course to the shape of the sealed element. A minimum of 70 mm concrete cover (the distance between the edge of the tape and the face of the concrete) is required. When securing an item with a width of more than 300 mm, it is recommended to place the tape at a distance of 1/3 from the water inlet side. After proper taping, it should be fixed firmly to the ground.

For this purpose it is recommended to use:

- mounting rails or steel mesh (fixing intervals of approximately 250 mm)
- fixing with pointing nails or mounting brackets (fixing intervals of approximately 150 mm),
- using suitable mounting adhesives.

Continuous mounting in the form of meshes, mounting rails or adhesive ensures better adhesion of the tape to the substrate. At the joints where no nails can be used, the tape can be fitted using a special mounting adhesive.

The tape sections are joined face-to-face (to abut) or through the lap connection of about 100 mm.

Expansion tapes should be fitted in the shortest possible time before concreting. In order to prevent premature expansion of the liner, it should be protected against weather conditions after laying. Expansion time (until reaching the maximum weight) is 7 +/- 2 days.
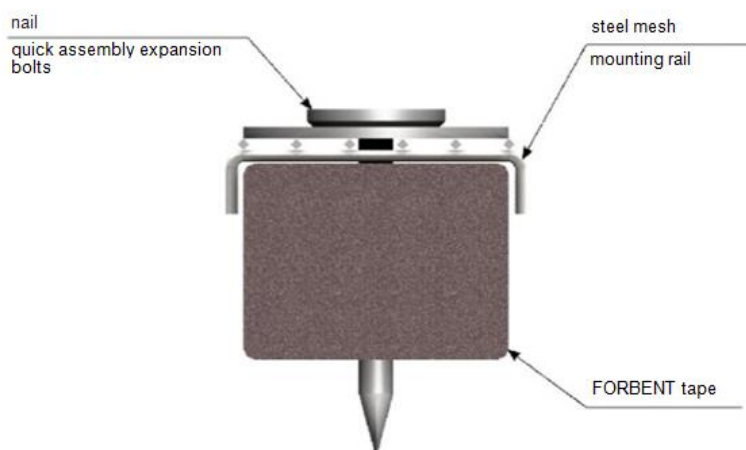
STORAGE / TRANSPORT

Forbent S expansion tapes should be stored in the manufacturer's original packaging, in dry, ventilated rooms, away from heating devices, in a manner that ensures the safety of storage and invariabness of the product's technical characteristics.

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TECHNICAL AND COMMERCIAL DATA

Properties	Value
Visual appearance	gray, black or graphite
Dimension and allowable deviations	23x18mm (±10%)
Length	5m
Expansion indicator	>200%
Expansion time (until reaching the maximum weight)	7 (± 2) days
Water tightness	No leakage at a pressure of at least 0.2 MPa
Waterproofness after drying and another water exposure	No leakage at a pressure of at least 0.2 MPa

Notes: The properties given in the table are based on Technical Approval No. AT-15-9475/2015 issued on 27 February 2015 by ITB (Institute of Building Technology) in Warsaw.

Symbol	h [mm]	a [mm]	L [m]	Packaging	Selling unit	Weight [kg]	Article no.
Forbent S expansion tape 18x23mm	18	23	5,00	40mb/karton	5 mb	0,68	SU-TP-FX-0-02005

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