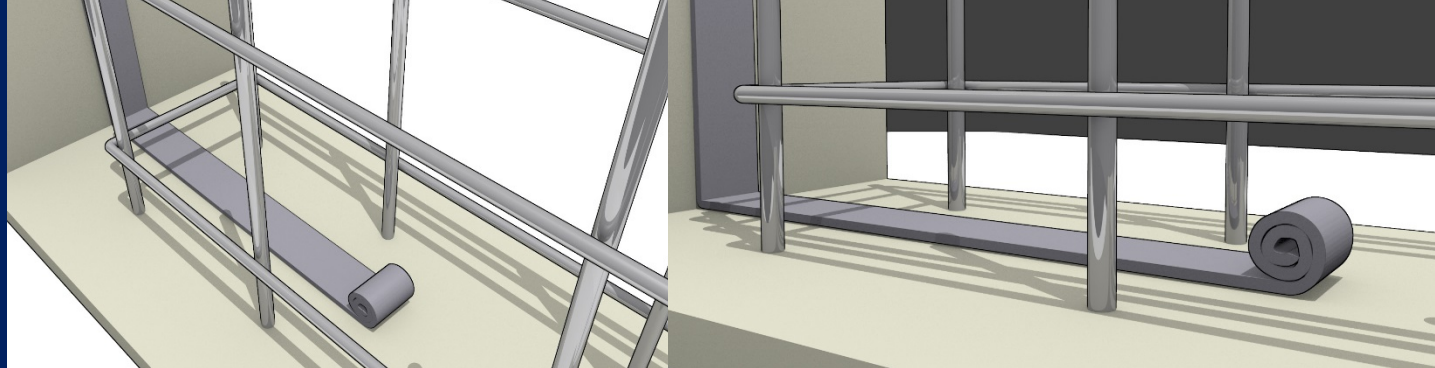




Rev 0
03/21



BENTOTEK STRIP-BT

Hydro-expansive bentonite joint based on sodium bentonite and butyl rubber for construction joints



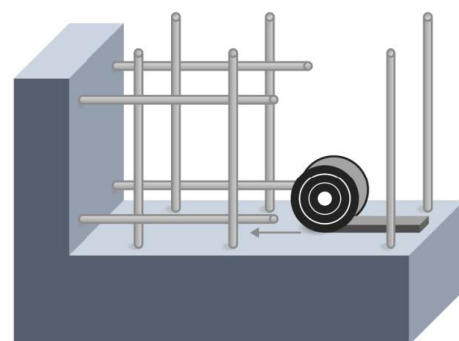
DESCRIPTION

BENTOTEK STRIP-BT is a hydro-expansive bead based on natural sodium bentonite, butyl rubber and in addition stabilizing additives, for sealing the construction joints.

In contact with water and in confined conditions, it expands to approximately 600% of its original dry volume and creates a waterproofing pressure inside the joint, sealing cracks and cavities in the joint, filling any holes in the concrete, cracks etc.

AREAS OF APPLICATION

BENTOTEK STRIP-BT has been designed to seal construction joints, resumption of concrete casting, around through elements, closing joints, against sheet piles, etc. It is suitable for preventing water leakage through the discontinuity gap between different concrete castings, for structures such as tunnels, swimming pools, foundations, etc. It can be used in conjunction with an injection tube in situations that can be considered high risk.



ADVANTAGES

BENTOTEK STRIP-BT is a hydro-expansive waterstop joint, which spreads around 600% of its original dry volume.

BENTOTEK STRIP-BT is an ecological and easy to use system: installation by means of nails or special glue is quick and easy.

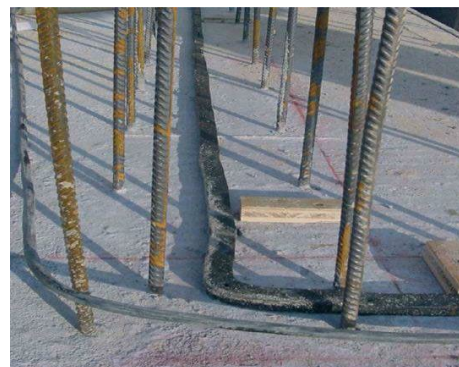
The use of wire mesh facilitates installation and protects BENTOTEK STRIP-BT from damage during casting and compacting of concrete. Nevertheless, BENTOTEK STRIP-BT, due to its highly compact, elastic and plastic properties, perfectly resists the casting phases (without mesh) while remaining perfectly intact. These properties easily balance the initial hydraulic shrinkage of the concrete.

BENTOTEK STRIP-BT can fill small gravel nests.

BENTOTEK STRIP-BT does not dissolve in water and is not polluting (it does not contain harmful substances).

It is resistant to mold and microorganisms.

- It has the property of swelling up to the maximum degree of expansion without losing consistency and therefore without the risk of washing away the bentonite gel.
- Delayed expansion for installation even in difficult atmospheric conditions (minimum expansion in the first 48 hours).
- The bentonite compound with butyl rubber can come into contact with drinking water without pollution problems



PRECAUTIONS

In the event that the spilled water contains abnormal quantities of dissolved salt, seawater infiltrations or pollutants, consult our technical staff for clarification and any preventive analysis.

BENTOTEK-STRIP BT is suitable for construction joints with reinforcement loops, but not for expansion joints (where the WATERTEK waterstop profiles are indicated).

TECHNICAL DATA SHEET



TEKNA CHEM S.p.A.

Headquarters: Renate (MB) - Via Sirtori, z.i. 20838 - Tel. +39 0362.91.83.11

Web: www.teknachemgroup.com - E-mail: info@teknachemgroup.com - Fax: +39 0362.91.93.96



METHOD OF APPLICATION

1. General.

BENTOTEK STRIP-BT can only function properly in a confined space, in order to develop sufficient pressure to ensure waterproofing.

BENTOTEK STRIP-BT should preferably be applied on smooth and dust-free concrete on the surface. The installation must take place exclusively in dry conditions.

Do not apply in case of rain or in contact with water to avoid premature expansion of the waterstop joint.

BENTOTEK STRIP-BT is applied between the inner and outer row of the reinforcing bars.

2. Preparation of the substrate.

Remove dust, dirt and more by brushing effectively.

If necessary, level the surface of the substrate with a hydro-expansive mastic.

3. Fixing by gluing (horizontal application only)

Apply a 5 x 10 mm layer of suitable adhesive with a cartridge gun to the concrete surface.

Unroll the waterstop joint and press firmly into the adhesive.

Wait for the adhesive to dry before casting the concrete (always maintain a minimum concrete coverage of 7 cm on each side). Overlap the ends of the joint-waterstop rolls sideways by 5-10 cm and press them firmly together.

Further nailing ensures better and safer adhesion of the waterstop joint to the concrete support.

4. Fixing with nails and wire mesh

Unroll the BENTOTEK STRIP-BT waterstop joint in the center of the joint (always maintain a minimum concrete coverage of about 7 cm on each side). Overlap the ends of the joint-waterstop rolls laterally for 5-10 cm.

Apply the steel mesh on the waterstop joint for applications on vertical surfaces.

Secure the waterstop joint with mesh using nails, approximately 4 per meter.

BENTOTEK STRIP-BT can be fixed around passing elements with steel wire or a suitable adhesive.

IMPORTANT

Avoid passing elements below the laying surface

TECHNICAL FEATURES

Flexible hydrophilic waterstop joint of approx. 25x20 mm section, composed of natural sodium bentonite and synthetic rubber (in a proportion of 75% -25%).

| | |
|--|-------------------------------------|
| Swelling capacity in contact with water (after 5 days) | 600% of its original dry volume (*) |
| Density | 1,58±5% kg/dm ³ |
| Weight | 0,79±5% kg/m |
| Maximum allowed curvature | No cracking 180° above 0°C |
| Application temperature | -15°C a +60°C |
| Operating temperature | -45°C a +120°C |
| Smell | No smell |

Non-toxic product

It doesn't require special handling precautions.

(*) Testing under laboratory conditions



TEKNA CHEM S.p.A.

Headquarters: Renate (MB) - Via Sirtori, z.i. 20838 - Tel. +39 0362.91.83.11

Web: www.teknachemgroup.com - E-mail: info@teknachemgroup.com - Fax: +39 0362.91.93.96

BENTOTEK STRIP-BT



APPEARANCE

Black, rectangular about 20 by 25 mm, in rolls of 5 meters in length.

CONSUMPTION

The quantities required depend on the length of the construction joints to be sealed. Consider the necessary lateral overlap of 5 to 10 cm between 2 consecutive joint segments

PACKAGING

Cardboard boxes containing 30 meters of curb: 6 rolls of 5 m in length.

Weight per carton box: 23.7 kg net / 25.2 kg gross.

The complete pallet is made up of 24 cardboard boxes of 30 m = 720 m.

STORAGE

BENTOTEK STRIP-BT must be stored indoors, off the ground.

Protect materials from all sources of moisture and frost. The duration is unlimited.

LEGAL NOTICES

The information contained in this technical data sheet, while representing the most advanced stage of knowledge, does not exempt the user from carrying out accurate preliminary tests in their own conditions of use and operation. We therefore decline all responsibility for improper use of the product.



TEKNA CHEM S.p.A.

Headquarters: Renate (MB) - Via Sirtori, z.i. 20838 - Tel. +39 0362.91.83.11

Web: www.teknachemgroup.com - E-mail: info@teknachemgroup.com - Fax: +39 0362.91.93.96

