

# BENTOSTOP strip

*Hydro insulation strip based on activated bentonite*

## 1. Product characteristics

A single-component hydroinsulation material in a form a strip, ideal for sealing of penetrations, trans-missions and work joints due to its extreme ability to increase volume when in contact with water.

- expands due to reaction with water and perfectly adjusts to shape and profile of the work joint
- ability to expand is not affected by cyclic drying
- UV radiation resistant
- permanently stable, resistant to various acids, alkalis, vegetal and mineral oils, oil products etc.
- ensures perfect sealing
- delayed activation

## 2. Use

**BENTOSTOP strip** is a sealing material, specially modified and supplied in form of strip. The main area of use is based on the ability of the activate bentonite to expand its volume after contact with water – it swells and creates a permanently watertight material of highly plasticity a valence. Due to the delayed activation the volume expansion begins after the initial curing of the concrete and which prevents its damage in the work joint. It is especially suitable for sealing passages in swimming pools, basins, reservoirs, sewer piping passages, joints of reinforced concrete precasts (rings, tubes), connecting while concreting etc.

## 3. Physical and mechanical parameters

Color	black
Density (kg/m <sup>3</sup> )	1250
Unconstrained expansion after 10 days (%)	min. 200

## 4. Test certificates

The product is certified according to Act 22/1997 and Governmental Decree No. 163/2002 Coll. Supervision of the quality system, EMS and OHSAS is carried out by Notified Body No. 1020.

## 5. Instruction for preparation and application

Installation of **BENTOSTOP strip** is simple.

Substrate that the **BENTOSTOP strip** is to be applied on must be dry (damp wet at most), must be clean of dust, grease or other materials that may negatively influence the adhesion to the substrate. We lay **BENTOSTOP strip** flat on the substrate in such a way to ensure perfect contact with substrate (in case of uneven substrate **BENTOSTOP tme1** can be used for to level and adhere the strip). Then we cover the strip with supplied supportive mesh (in case of possibility of deflection of the strip from proper position for example during concrete pour). We attach the mesh to the substrate using steel nails approximately 25 cm apart. Concreting can be carried out immediately after installation of the strip. Minimal thickness of the concrete surrounding **BENTOSTOP strip** has to be larger than 7 cm. **BENTOSTOP strip** cannot be applied on surfaces with layer of standing water. This water has to be removed and surface protected from ingress of new water.

It is recommended to use **BENTOSTOP fixativ** agent as an effective delaying measure.

**BENTOSTOP strip** can be cut into any shape.

**BENTOSTOP strip** is not suitable for open joints.

**BENTOSTOP strip** must be for proper function placed into confined space, so it can during expansion exert pressure on the edges of the joint. For temporary protection in open joints it has to be protected against mechanical damage, because it is not suitable for mechanical loading, abrasion etc.). In general **BENTOSTOP strip** is not suitable for applications where the expansion of the material can push, move or lift the structure in undesirable way. Also **BENTOSTOP strip** should not be used for dilatation joints or any other permanently moving joints.

## 6. Specific consumption

Depending on specific application, usually 1.00 ÷ 1.05 m/meter of joint.

## 7. Packing and storage

**BENTOSTOP strip** is supplied in following sizes and packaging

Size (mm)	Roll (m)
10x15	8
20x15	5
20x25	5
150x1,5	20

Shelf life in undamaged packing and under standard temperatures is unlimited.

## 8. Health protection at work

Work with **BENTOSTOP strip** does not require any extraordinary hygienic precautions. In case of accidental ingestion rinse mouth with water and drink approximately 0.5 l of water. Seek medical help. In case that eyes are affected by the product, clean eyes with running water and seek medical help.

## 9. Waste disposal

During disposal of contaminated packages or clearing debris from product, it is necessary to follow the Act No. 185/2001 Coll. on waste, as amended.

## 10. Important notice

All information mentioned above, especially advice for processing and application of our products, is based on our knowledge from the development of chemical products and on years of experience with applications in practice at standard conditions, and proper storage and use. Due to the differing conditions during processing, high count of products, varying nature and modifications of base and other external influences, the procedure based on the information provided or on other written or oral recommendations, may not always ensure satisfactory working results. BETOSAN s.r.o. assumes no liability for provided advice or recommendation. The applicator must prove, that he submitted complete information on time and in writing which is necessary for a proper detailed assessment by BETOSAN s.r.o. The applicator must test the suitability of the products for the intended application. Proprietary rights of third parties, above all, must be taken into account. All received are orders subject to our current "General sales and delivery conditions ". Please always make sure that you follow the most recent issue of the Technical Data Sheet. It is available, along with other information, at our Technical Department or at [www.betosan.cz](http://www.betosan.cz)

Technical Data Sheet No. 4-14  
Issued 10.2.2014

