

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-16/0735
of 13 September 2016

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General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

MASTERSTOP bentonite swelling tape 25 x 20 mm
MASTERSTOP bentonite swelling tape 20 x 15 mm
MASTERSTOP LONG TIME

Product family
to which the construction product belongs

Swellable sealing type on the basis of bentonite

Manufacturer

MASTERTEC GmbH & Co. KG
Im Maintal 13
96173 Oberhaid
DEUTSCHLAND

Manufacturing plant

MASTERTEC GMBH & Co. KG
Im Maintal 13
96173 Oberhaid
DEUTSCHLAND

This European Technical Assessment
contains

7 pages including 2 annexes which form an integral part
of this assessment

This European Technical Assessment is
issued in accordance with Regulation (EU)
No 305/2011, on the basis of

European Assessment Document (EAD)
320008-00-0605

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Specific Part

1 Description of the product

The swellable joint sealing tape "MASTERSTOP bentonite swelling tape" consist of a mixture of sodium bentonite and non vulcanised rubber. There are the following types of products:

- MASTERSTOP bentonite swelling tape with the dimensions for width x height of 25 mm x 20 mm or 20 x 15 mm
- MASTERSTOP LONG TIME (dimensions: 25 mm x 20 mm) covered by a protection foil, soluble in the alkali environment of concrete

It is delivered in rolls with a length up to 5 m and is cut on site.

The sealing tape could be delivered with an adhesive or with grid mesh and nails for fixing the joint sealing tape.

Annex A shows the principles and performances of the product and furthermore the different types of products.

2 Specification of the intended use in accordance with the applicable European assessment Document

The sealing tape is used to seal construction joints in constructions made of concrete with high resistance to water (watertight concrete) against the penetration of pressing and un-pressing water (e.g. ground water) and to soil moisture.

The performances given in Section 3 are only valid if the sealing tape is used in compliance with the specifications and conditions given in Annex B.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the product of at least 50 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works

3 Performance of the product and references to the methods used for its assessment

3.1 Mechanical resistance and stability (BWR 1)

Not applicable

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	See Annex A1

3.3 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Dimensions	See Annex A1
Watertightness in end use conditions	See Annex A1
Swelling behavior in different liquids at the state of delivery	See Annex A1
Reversibility of swelling process	See Annex A1
Swelling pressure	See Annex A1

3.4 Safety and accessibility (BWR 4)

Not applicable

3.5 Protection against noise (BWR 5)

Not applicable

3.6 Energy economy and heat retention (BWR 6)

Not applicable

3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

3.8 General aspects

The verification of durability and serviceability is only ensured if the specifications of intended use according to Annex B and the specifications of the technical file of the manufacturer are kept.

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

According to Decision of the Commission of 25 January 1999 (99/90/EC) (OJ L 29/38 of 03.02.1999) amended on 8 January 2001 (2001/586/EC) (OJ L 209/33 of 02.08.2001) the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use(s)	Level or class	System
Swellable joint sealing tape	For building works	-	3
	For uses subject to regulation on reaction to fire	E	3

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 13 September 2016 by Deutsches Institut für Bautechnik

Andreas Kummerow
p. p. Head of Department

beglaubigt:
Hemme



MASTERSTOP bentonite swelling tape xx/xx black and green MASTERSTOP LONG TIME with grid for fixing

Performance of the product:

Reaction to fire in acc. to EN 13501-1	Class E
Dimensions	
Type: 20/15 mm	20/15 mm
Type: 25/20 mm	25/20 mm
Type LONGTIME	25/20 mm
Watertightness in end use conditions:	Admissible waterpressure:
Type 20/15 mm	up to 8 m
Type 25/20 mm	up to 20 m
Swelling behavior in:	
deionised water	
alkaline solution	16 days
liquid with pH-value of 4.5	
for MASTER STOP LONG TIME	with time lag until the foil dissolve
Reversibility of swelling process	Reversible, swelling process in 9 to 10 days
Swelling pressure	> 0,64 MPa

MASTERSTOP bentonite swelling tape 25 x 20 mm, 20 x 15 mm
MASTERSTOP LONG TIME

Product and performances of the product

Annex A



Example for installation with grid and nails

Installation

The performance of the waterproofing product can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- Installation by appropriately trained personnel
- Installation of only those components which are specified as components of the products
- Installation with the required tools
- Inspecting the substrate surface and the joint surface for cleanliness and correct treatment
- During transport and storing the sealing tape shall be protected against water and humidity.
- This sealing tape shall be installed only in dry state and at dry weather conditions. MASTERSTOP LONG TIME is wrapped with a foil for a better weather resistance. The foil shall be installed with protection foil.
- The sealing tape is generally located in the center of the construction joints. In the end the sealing tape shall be fully enclosed by concrete.
- The distance between sealing tape and the edge of the construction element must be at least 80 mm.
- During installation and concreting the sealing tape shall be fixed by fully bonding by or with a grid and nails in a distance of maximum 20 cm. At the ends of the sealing tape is a butt joint. During concreting the sealing tape should not move and should not float.
- Inspecting of position and fixing of the sealing tape during installation and of the finished installed water stop respectively after the 1. concrete step and documentation of the results.

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<p>MASTERSTOP bentonite swelling tape 25 x 20 mm, 20 x 15 mm MASTERSTOP LONG TIME</p>	<p>Annex B</p>
<p>Intended use Specifications</p>	