

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-18/0304
of 18 June 2018

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General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

FLOWSTOP

Product family
to which the construction product belongs

swellable joint sealing tape on the basis of TPE

Manufacturer

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

Manufacturing plant

MASTERTEC GmbH & Co. KG
Im Maintal 13
96173 Oberhaid

This European Technical Assessment
contains

6 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

EAD 320008-01-0605

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Specific Part

1 Technical description of the product

The swellable joint sealing tape "FLOWSTOP" consists of modified thermoplastic elastomer (TPE).

The product Flowstop High-pressure swelling tape with a square section is pressed into the dimensions for width x height of 20 mm x 5 mm

It is delivered in rolls with a length up to 20 m and is cut on site.

The sealing tape could be delivered with an adhesive (POWER) or with nails for fixing the joint sealing tape. The nails are not part of the ETA.

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 Safety in case of fire (BWR 2)

Essential characteristic	Performance
Reaction to fire	See Annex A

3.2 Hygiene, health and the environment (BWR 3)

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

3.3 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

In accordance with EAD Nr. 320008-01-0605, the applicable European legal act is: 1999/90/EG.
The system to be applied is: 3

In addition, with regard to e.g. reaction to fire for products covered by this ETAG the applicable European legal act is: 1999/90/EG.

The system to be applied is: 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 18 June 2018 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Gnamou



FLOWSTOP High-pressure swelling tape with the adhesive "POWER" for fixing

Performance of the product:

Reaction to fire in acc. to EN 13501-1	Class E
Dimensions mm	20/5
Watertightness in end use conditions:	Admissible water pressure: up to 20 m
Swelling behavior in: deionised water alkaline solution liquid with pH-value of 4.5	64 days
Reversibility of swelling process	Reversible, swelling process in 7 to 11 days
Swelling pressure	> 0,92 MPa

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FLOWSTOP
MASTERTEC GmbH & Co. K.G.

Product and performances of the product

Annex A



Example for installation with adhesive "POWER"

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
- During transport and storing the sealing tape shall be protected against water, humidity and from direct sunlight
- Inspecting the substrate surface and the joint surface for cleanliness and correct treatment
- This sealing tape shall be installed only in dry state and at dry weather conditions.
- The swelling tape adhesive "POWER" as the only system-compatible adhesive is applied unto surface in a uniform bead (width 8 -10 mm) before the tape be placed on the adhesive and gently pressed on.
- The sealing tape is generally located in the center of the construction joints respectively crack control sections. 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.
- Straight and angle joints need to be butt jointed.
- During installation and concreting the sealing tape shall be fixed by fully bonding or in especial cases with nails in a distance of maximum 15 cm. During concreting the water stop 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 execution as well as documentation of the results.

FLOWSTOP
MASTERTEC GmbH & Co. K.G.

Intended use
Specifications

Annex B