

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-20/0503**  
**of 7 September 2020**

English translation prepared by DIBt - Original version in German language

### General Part

Technical Assessment Body issuing the  
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

"Missel Brandschutz-Kitt BS-KITT II" (intumescent putty)

Product family  
to which the construction product belongs

Intumescent products for fire sealing and fire stopping  
purposes

Manufacturer

Kolektor Insulation GmbH  
Max-Planck-Straße 23  
70736 Fellbach  
DEUTSCHLAND

Manufacturing plant

Herstellwerk 3<sup>1</sup>

This European Technical Assessment  
contains

6 pages including 1 annex which forms 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 350005-00-1104; Edition May 2015

<sup>1</sup> Address known at DIBt

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## Specific Part

### 1 Technical description of the product

Object of this European technical assessment (ETA) is the intumescent construction product "Missel Brandschutz-Kitt BS-KITT II".

In case of fire, exposed to high temperatures the intumescent product expands and generates foam. This foam seals joints and gaps, closes voids and openings and restricts this way the passage and propagation of heat, smoke, flames or any combination of them.

The product "Missel Brandschutz-Kitt BS-KITT II" does not generate essential expansion pressure during this reaction.

The construction product "Missel Brandschutz-Kitt BS-KITT II" is a soft mastic or putty delivered preferably in cartridges. The product essentially consists of intumescent substances and a binder. When applied it generates flexible layers which expand in case of fire.

The technical characteristics used for fire sealing and fire stopping effect of the construction product "Missel Brandschutz-Kitt BS-KITT II" are given in Annex 1.

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

The construction product "Missel Brandschutz-Kitt BS-KITT II" is assessed on the basis of EAD N° 350005-00-1104, edition May 2015<sup>2</sup> as an intumescent product for fire sealing and fire stopping purposes without specific final use (IU 1).

The construction product "Missel Brandschutz-Kitt BS-KITT II" is intended to be used as essential component in, between or on construction products, construction elements, kits and special constructions which meet requirements concerning the safety in case of fire. In case of fire, the product delays the heat transfer through fire resistant construction elements, assemblies or special constructions by expanding under the impact of high temperatures and restricts the spread of fire.

The performance "resistance to fire" shall be tested for the specific final use, if requested.

The performance given in Section 3 is only valid when the intumescent construction product "Missel Brandschutz-Kitt BS-KITT II" is used considering the remarks and the boundary conditions of clause 3.3.

The tests and assessment methods on which this European Technical Assessment is based lead to an assumption of working life of the intumescent construction product "Missel Brandschutz-Kitt BS-KITT II" in final use of at least 10 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.

<sup>2</sup> Official Journal of the EU N° C 378/02 of 13 November 2015

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

#### 3.1 Safety in case of fire (BWR 2)

##### 3.1.1 Reaction to fire

Essential characteristic	Performance
Reaction to fire	Class E according to EN 13501-1 <sup>3</sup>

##### 3.1.2 Resistance to fire

The performance "Resistance to fire" shall be demonstrated separately for the intended final use if requested.

#### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content of dangerous substances	No dangerous substances <sup>4</sup>

The detailed chemical composition of the intumescent construction product "Missel Brandschutz-Kitt BS-KITT II" was assessed by DIBt and is deposited with DIBt.

#### 3.3 General aspects

The evidence of durability is part of testing the basic works requirements and the achievement of the performance assessed. The durability is only presumed, if the provisions for the intended use are considered.

The assessment of the durability regarding to the product's performance was done for climatic use conditions of type Z<sub>2</sub> - dry in-door use without frost, according to EAD Nr. 350005-00-1104, clause 1.2.2.

Conclusion:

The intumescent construction product "Missel Brandschutz-Kitt BS-KITT II" may be used in dry, frost-protected rooms with occasional condensation without having to fear essential changes in the relevant fire sealing and fire stopping properties and the resulting performance.

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

In accordance with the European Assessment Document EAD No 350005-00-1104 the Decision of the commission N° 1999/454/EC of 22 June 1999 (OJ of the EU L 178 of 14 July 1999, p 42), amended by EC Decision 2001/596/EC of 8 January 2001 (OJ of the EU L 209 of 2 August 2001, p 33) is the legal basis for the determination of the AVCP system. So system 1 applies for the assessment and verification of constancy of performance (AVCP) (see Annex V in conjunction with Article 65 (2) of the Regulation (EU) N° 305/2011) according to the following table:

<sup>3</sup> EN 13501-1:2007 Fire classification of construction products and building elements, Part 1 and A1:2009 Classification using test data from reaction to fire tests

<sup>4</sup> In accordance with the Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 (published in the Official Journal of the EU N° L 353 of 31/12/2008, p 1)

Product	Intended use	Characteristic	System
"Missel Brandschutz-Kitt BS-KITT II"	Components effective in the view of safety in case of fire (BWR) used in construction products, construction elements, kits and special constructions	Reaction to fire properties relevant for the fire sealing and fire stopping effect	1

**5 Technical details necessary for the implementation of System 1 for the Assessment and verification of constancy of performance (AVCP), as provided for in the applicable European Assessment Document**

The technical details necessary for the implementation of the system of assessment and verification of constancy of Performance (AVCP) are laid down in the control plan (confidential part of this ETA) deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 7 September 2020 by Deutsches Institut für Bautechnik

Dr. Karsten Kathage  
Vice President

*beglaubigt:*  
Dr.-Ing. Dierke

ANNEX 1

**CHARACTERISTICS RELEVANT FOR THE FIRE SEALING AND FIRE STOPPING  
EFFECTS OF THE CONSTRUCTION PRODUCT**

**"Missel Brandschutz-Kitt BS-KITT II"**

Characteristics	Range and tolerance	Test method <sup>5</sup>
Density	1200 kg/m <sup>3</sup> to 1385 kg/m <sup>3</sup>	See control plan
Content of non-volatile components	65,0 % ± 5 %	
Loss of mass at a certain temperature	61,0 % ± 5 % (at 400°C for 30 minutes)	
Expansion ratio	35 to 55 (at 400 °C without a top-load for 30 minutes with samples ca. 2 mm thick)	

The product does not generate remarkable expansion pressure during the foaming.

<sup>5</sup> Details of the test method are deposited with DIBt.