

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-21/0909
of 3 January 2022

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

"Curaflam Inject BS +K10"

Product family
to which the construction product belongs

Intumescent products for fire sealing and fire stopping
purposes

Manufacturer

DOYMA GmbH & Co
Industriestraße 43- 57
28876 Oyten
DEUTSCHLAND

Manufacturing plant

DOYMA 36

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

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Specific Part

1 Technical description of the product

Object of this European technical assessment (ETA) is the intumescent construction product "Curaflam Inject BS +K10".

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 "Curaflam Inject BS +K10" does not generate essential expansion pressure during the foaming reaction.

The construction product "Curaflam Inject BS +K10" is a viscous, water-based mastic of off-white colour, preferably delivered in pails, cartridges or in flexible plastic tubes. The product essentially consists of intumescent substances and a binder. When applied it generates flexible, fluorescent layers which expand in case of fire.

The technical characteristics used for the fire sealing and fire stopping effect of the construction product "Curaflam Inject BS +K10" are given in Annex 1.

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

The construction product "Curaflam Inject BS +K10" is assessed on the basis of EAD N° 350005-00-1104, edition May 2015¹ as an intumescent product for fire sealing and fire stopping purposes without specific final use (IU 1).

The construction product "Curaflam Inject BS +K10" 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 "Curaflam Inject BS +K10" 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 "Curaflam Inject BS +K10" 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.

¹ 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 the assessment

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

Essential characteristic	Performance
Reaction to fire	in accordance with EN 13501-1 ² ; class E

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 ³

The detailed chemical composition of the intumescent construction product "Curaflam Inject BS +K10" was assessed by DIBt and is deposited with DIBt in written form.

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 fire safety performance was done for climatic use conditions of type Z₂ - dry in-door use without frost, and of type Z₁ – frost protected indoor use at relative humidity of ≥ 85 % temporarily and re-drying condensation in accordance with EAD Nr. 350005-00-1104, clause 1.2.2.

Conclusion:

The intumescent construction product "Curaflam Inject BS +K10" may be used permanently in dry, frost-protected rooms also with changing relative humidity without having to fear essential changes in the relevant fire sealing and fire stopping properties and the resulting performance.

² EN 13501-1:2010 Fire classification of construction products and building elements, Part 1 Classification using test data from reaction to fire tests of the products

³ 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)

English translation prepared by DIBt

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:

Product	Intended use	Characteristic	System
"Curaflam Inject BS +K10"	Components effective in the view of safety in case of fire 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 3 January 2022 by Deutsches Institut für Bautechnik

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beglaubigt:
Dr.-Ing. Dierke

ANNEX 1

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

"Curaflam Inject BS +K10"

Characteristics	Range and tolerances	Test method
Density (as delivered)	1200 kg/m ³ to 1260 kg/m ³	See control plan
Content of non-volatile components (fresh)	56,0 % ± 5 %	
Loss of mass at a certain temperature (hardened)	52,0 % ± 5 % (at 400 °C for 30 minutes)	
Expansion ratio	36,0 bis 50,0 (at 400 °C without a top load for 30 minutes, with samples of ca 1,7 mm thickness)	

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