



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-15/0590 of 10 March 2021

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

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

This version replaces

Deutsches Institut für Bautechnik

Interdens F

Intumescent products for fire sealing and fire stopping purposes

Wolman Wood and Fire Protection GmbH Dr.-Wolmann-Straße 31-33 76547 Sinzheim DEUTSCHLAND

A, B, C, D

6 pages including 1 annex which forms an integral part of this assessment

EAD 350005-00-1104, Edition May 2015

ETA-15/0590 issued on 18 May 2016



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Specific Part

1 Technical description of the product

Object of this European Technical Assessment (ETA) is the intumescent construction product "Interdens F".

The European Technical Assessment is also valid for the construction product "Interdens F" in form of granulate and for strips and profiles equipped at the factory on one side with a self-adhesive tape (SK)¹.

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. Thus, the foam restricts the passage and the spread of heat, smoke, flames or any combination of these.

The technical characteristics relevant for fire sealing and fire stopping effects of the construction product "Interdens F" are given in Annex 1.

The construction product "Interdens F" is an intumescent product of optionally white or red colour, manufactured as granulate or in form of flexible strips and profiles extruded of this granulate. The product essentially consists of intumescent substances and a binder.

The construction product "Interdens F" in form of strips and profiles is produced at a factory in nominal thicknesses between 1 mm and 5 mm (each with a tolerance of \pm 0,2 mm), several nominal widths (each with a tolerance of \pm 0,5 mm) and with a standard length of 100 m. Other dimensions are available on demand.

The intumescent strips and profiles are delivered in coils; the granulate in bags.

The strips and profiles can be equipped on one side with a self-adhesive tape for fixing the product on the substrate or can be fastened mechanically or by using a suitable adhesive, which is not part of this assessment.

The construction product "Interdens F" in form of strips and profiles and the variant equipped with a self-adhesive tape may be cut on request.

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

The construction product "Interdens F" is assessed on the basis of EAD 350005-00-1104² as an intumescent product for fire sealing and fire stopping purposes without a specifically defined final use (IU 1).

The construction product "Interdens F" and its variant with a self-adhesive tape are intended to be used as an essential component in construction products, construction elements, assemblies, kits and special constructions which need to meet requirements concerning the safety in case of fire.

In case of fire, the product delays the heat transfer through fire resistant construction elements and assemblies by expanding under the impact of high temperatures and thus restricting the spread of fire in fire resistant construction elements and assemblies.

The performance given in section 3 is only valid if the product "Interdens F" is used in accordance with the instructions and the conditions stated in section 3.3.

The tests and assessment methods on which this European Technical Assessment is based, lead to the assumption of working life of the intumescent construction product "Interdens F" of at least 10 years³ in final use.

type, manufacturer and specific parameters deposited at DIBt

Official Journal of the EU N° C 378/02 of 13/11/2015

results of long-term aging available (natural-aging at internal conditions for 10 years)



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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 this assessment

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

Essential characteristic	Performance
Reaction to fire	Class E in accordance with EN 13501-1⁴

The intumescent construction product "Interdens F" in the origin variants without and with self-adhesive tape on one side meets the reaction to fire requirements of class E in accordance with EN 13501-1⁴.

3.1.2 Resistance to fire

The performance "resistance to fire" shall be determined separately for every final use and shall be classified, if required.

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance	
Content of dangerous substances	No dangerous substances⁵	

The detailed chemical composition of the intumescent construction product "Interdens F" was assessed by DIBt and is deposited at DIBt.

3.3 General aspects

Durability testing shall be an integral part of assessing the basic works and performance requirements. The following specific provisions shall be complied with to ensure the durability of the performance for the intended use.

The testing and the assessment of the product performance were carried out for environmental conditions of type Z_1 in accordance with EAD 350005-00-1104^{2Fehler! Textmarke nicht definiert.}, section 1.2.2.

Result:

The intumescent construction product "Interdens F" can be used under use conditions of type Z_1 – intended for use at in-door condition at higher humidity (inclusive occasional condensation) , but no temperatures below $0^{\circ}C$ -, without having to fear essential changes in the relevant fire sealing and fire stopping properties and the resulting performance. This assessment includes the in-door use under use conditions of type Z_2 - dry, frost-protected in-door use.

The over-painting with suitable decorative coatings is possible, if no influence on the foaming behaviour in case of fire is expected. The performance "reaction to fire" shall be determined separately with the intended coating.

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

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)



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

In accordance with EAD No. 35 0005-00-1104^{2Fehler! Textmarke nicht definiert.} "Intumescent products for fire sealing and fire stopping purposes", the applicable European legal act is: EC Decision 1999/454/EC of 22 June 1999, amended by EC Decision 2001/596/EC of 8 January 2001

The system to be applied is: system 1

See Regulation (EU) N° 305/2011 Annex V in conjunction with Article 65 (2) and the following table:

Product	Intended use	characteristic	System
"Interdens F" strips and profiles without or with self-adhesive tape (SK), "Interdens F" granulate	Components effective in view of safety in case of fire used in construction products, construction elements, kits and special assemblies	reaction to fire, properties relevant for the fire sealing and fire stopping effect	1

Technical details necessary for the implementation of the procedure for assessment and verification of constancy of performance (AVCP) system 1, as provided for in the applicable European Assessment Document

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

Issued in Berlin on 10 March 2021 by Deutsches Institut für Bautechnik.

Otto Fechner Head of section beglaubigt:

Dr.-Ing. Dierke



ANNEX 1

CHARACTERISTICS RELEVANT FOR THE FIRE SEALING AND FIRE STOPPING EFFECT OF THE CONSTRUCTION PRODUCT

"Interdens F"

Characteristic	Range and tolerance	test method
Thickness	1,0 mm to 5,0 mm	
	Tolerance for each ± 0,2 mm	
Expansion ratio	12,0 to 32,0	see control plan
Expansion pressure	0,50 N/mm ² to 1,80 N/mm ²	

The intumescent product "Interdens F" does not create remarkable expansion pressure.

In case of fire the intumescent product "Interdens F" reacts in two steps:

Phase 1 starts at ca. 150 °C

Phase 2 starts at ca. 300 °C.

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