



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-16/0810 of 1 March 2017

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

Deutsches Institut für Bautechnik

Interdens® Heatseal

Intumescent products for fire sealing and fire stopping purposes

BASF Wolman GmbH Dr.-Wolman-Straße 31-33 76547 Sinzheim DEUTSCHLAND

 A^1

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

European Assessment Document (EAD) 350005-00-1104

Address known at DIBt Deutsches Institut für Bautechnik



European Technical Assessment ETA-16/0810

Page 2 of 6 | 1 March 2017

English translation prepared by DIBt

The European Technical Assessment is issued by the Technical Assessment Body in its official language. Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and shall be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full. However, partial reproduction may only be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction shall be identified as such.

This European Technical Assessment may be withdrawn by the issuing Technical Assessment Body, in particular pursuant to information by the Commission in accordance with Article 25(3) of Regulation (EU) No 305/2011.



European Technical Assessment ETA-16/0810 English translation prepared by DIBt

Page 3 of 6 | 1 March 2017

Specific Part

1 Technical description of the product

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

This ETA also applies to "Interdens® Heatseal" in form of cuts (e.g. strips) and blanked pads as well as to the modifications with self-adhesive tape (SA)² on one side and/or with a lamination of aluminium foil (thickness 100 µm)² on one or both sides.

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® Heatseal" are given in Annex 1.

The construction product "Interdens® Heatseal" is a semi-rigid intumescent product of anthracite colour, produced in form of panels. The product consists essentially of intumescent substances, binder and a glass-fibre inlay.

The construction product "Interdens® Heatseal" is produced in a factory of a nominal thicknesses between 0,9 mm and 2,1 mm (tolerance of \pm 0,3 mm for each), and preferably with a standard width of 1030 mm and a standard length of 2125 mm.

Other dimensions, cuts and pads are possible.

The construction product "Interdens® Heatseal" may be equipped with a self-adhesive tape on one side for fixing the product on the substrate or can be fastened mechanically or by using a suitable adhesive, which is not part of this ETA.

The construction product "Interdens® Heatseal" may also get a lamination of aluminium foil (thickness 100 µm) on one or both sides.

The construction product "Interdens® Heatseal" may be cut if necessary.

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

The construction product "Interdens® Heatseal" is assessed on the basis of EAD 350005-00-1104³ as an intumescent product for fire sealing and fire stopping purposes without defined final intended use (IU 1).

The construction product "Interdens® Heatseal" and its modifications with self-adhesive tape and/or a lamination of aluminium foil (thickness 100 µm) are intended to be used as an essential component in construction products, construction elements, kits and special assemblies 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 products and construction elements by expanding under the impact of high temperatures and thus restricting the spread of fire.

The performance given in section 3 is only valid, if the construction product "Interdens® Heatseal" in use considers the instructions and the conditions stated in section 3.3.

The test and assessment methods on which this ETA is based, lead to the assumption of working life of the intumescent construction product "Interdens® Heatseal" of at least 10 years4 in final use.

Type, manufacturer and specific parameters deposited with DIBt

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

Results of long-term aging available (10 years defined exposure)



European Technical Assessment ETA-16/0810

Page 4 of 6 | 1 March 2017

English translation prepared by DIBt

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 13501-1

The intumescent construction product "Interdens® Heatseal" with/without a self-adhesive tape and/or a lamination of aluminium foil (thickness 100 μm) meets the reaction to fire requirements of class E in accordance with EN 13501-1⁵.

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 for the construction element concerned.

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content and release of dangerous substances	No dangerous substances ⁶

The detailed chemical composition⁷ of the intumescent construction product "Interdens[®] Heatseal" was assessed by DIBt and is deposited with DIBt.

3.3 General aspects

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

The testing and the assessment of the product performance were carried out for environmental conditions of type Z_2 - product intended for use at dry internal conditions without frost (relative humidity between 50 % and 85 % and temperatures between +5 °C ±5 °C and +35 °C ±5 °C) - in accordance with EOTA Technical Report 024⁸, section 4.2.7.

Result:

The intumescent construction product "Interdens[®] Heatseal" can be used under use conditions of type Z_2 without having to fear essential changes in the relevant fire sealing and fire stopping properties and the resulting performance.

5 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

Written declaration of 18/11/2016

EOTA TR 024 Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and products; amended version July 2009

In accordance with the Regulation (EC) No 1272/2008 of the European Parliament and the Council of 16 December 2008 (published in the OJ of the EU N° L353 of 31/12/2008)





European Technical Assessment ETA-16/0810

Page 5 of 6 | 1 March 2017

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 AVCP.

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 and the following table:

Product	Intended use	Characteristic	System
"Interdens [®] Heatseal"	Components effective in view of safety in case of fire (BWR 2) 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 with Deutsches Institut für Bautechnik.

Issued in Berlin on 1 March 2017 by Deutsches Institut für Bautechnik

Prof. Gunter Hoppe Head of Department *beglaubigt:*Dr.-Ing. Dierke



European Technical Assessment ETA-16/0810 English translation prepared by DIBt

Page 6 of 6 | 1 March 2017

ANNEX 1

CHARACTERISTICS OF THE CONSTRUCTION PRODUCT RELEVANT FOR THE FIRE SEALING AND FIRE STOPPING EFFECTS OF "INTERDENS® HEATSEAL"

Characteristic	Test method ⁹	Range of determined values and tolerances
Thickness	EOTA TR 024 ⁸ , cl. 3.1.2	0,9 mm to 2,1 mm (tolerance for each nominal thickness ± 0,3 mm)
Expansion ratio	EOTA TR 024 ⁸ , cl. 3.1.11 Method 1 at 350 °C for 30 minutes	6,0 to 18,0
Expansion pressure	EOTA TR 024 ⁸ , cl. 3.1.12 Method 4 at 350 °C	0,50 N/mm ² to 1,80 N/mm ²

The chemical reaction starts at ca. 150 °C.

⁹ Details of test method are deposited with DIBt.