



Element Materials Technology
Rotterdam B.V.
Zekeringstraat 33
1014 BV Amsterdam
Netherlands
Tel: +31 (0) 20-55633555
www.element.com



Member of



www.eota.eu

European Technical Assessment

**ETA 20/1215
of 2020/12/17**

General Part

Technical Assessment Body Issuing the European Technical Assessment:	Element Materials Technology Rotterdam B.V.
Trade Name of the Construction Product:	Nullifire FS703 Intusil
Product Family to Which the Construction Product Belongs:	EC PAC 35 – Fire Stopping, Fire Sealing & Fire Protective Products. Fire Retardant Products
Manufacturer:	Tremco CPG UK Limited Torrington Avenue Coventry CV4 9TJ UK
Manufacturing Plant(s):	H/006
This European Technical Assessment Contains:	15 pages including 3 Annex(es) 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 350141-00-1106 Firestopping and Fire Sealing Products: Linear joint and gap seals, Issued September 2017
This Version Replaces:	ETA 14/0449, issued on 08/10/2020

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1. Technical Description of the Product

- 1) Nullifire FS703 Intusil is a silicone based sealant used to form linear gap seals where gaps are present in floor and wall constructions.
- 2) The Nullifire FS703 Intusil is supplied in liquid form contained within 310ml & 830ml cartridges, 600ml sausages and 200litre drums.
- 3) PE backing rod, reference Nullifire PE (RtF class F) is utilised as a depth gauge.

2. Specification of the Intended Use(s) in Accordance with the Applicable European Assessment Document (hereinafter EAD)

2.1 Intended Use

The intended use of system Nullifire FS703 Intusil is to reinstate the fire resistance performance of gaps in and joints between joints in rigid floor constructions.

- 1) The specific elements of construction that the system Nullifire FS703 Intusil may be used to provide a gap or joint seal in, are as follows:

Rigid Floors:	The floor must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m ³ .
Rigid walls:	The wall must have a minimum thickness of 150 mm and comprise concrete, aerated concrete or masonry, with a minimum density of 650 kg/m ³ .

The supporting construction must be classified in accordance with EN 13501-2 for the required fire resistance period.

- 2) The system Nullifire FS703 Intusil may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex C).
- 3) The maximum permitted joint/gap width for system Nullifire FS703 Intusil is 50 mm.
- 4) The maximum movement capability of system Nullifire FS703 Intusil is $\leq 7.5\%$
- 5) The provisions made in this European Technical Assessment are based on an assumed working life of the Nullifire FS703 Intusil of 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.

2.2 Use Category

Type X: Intended for use in conditions exposed to weathering.

3. Performance of the Product and References to the Methods Used for its Assessment

	BWR	Characteristic	Assessment of characteristic
	2	Safety in case of fire	
		Reaction to fire	see clause 1.1
		Resistance to fire	See clause 1.2 & Annex C
	3	Hygiene, Health and the Environment	
		Air permeability	See clause 2.1
		Dangerous substances	See clause 2.2
	4	Safety in use	
		Durability and serviceability	See clause 3.1

3.1 Safety in case of fire

3.1.1 Reaction to fire

Nullifire FS703 Intusil is classified 'F' in accordance with EN 13501-1.

3.1.2 Resistance to fire

Nullifire FS703 Intusil has been tested in accordance with BS EN 1366-4: 2006 based upon the test results and the field of direct application specified within EN 1366-4: 2006, the system Nullifire FS703 Intusil has been classified in accordance with EN 13501-2, as given in Annex C:

The seals may only be used in the elements of construction described in Annex C and against the substrates described in Annex C.

Provisions shall be taken such that floor joint seals cannot be stepped on e.g. by covering with wire mesh or floor finishes.

3.2 Health, Hygiene and the environment.

3.2.1 Air permeability

Test pressure differential Pa	Air permeability: m ³ /h per linear metre of seal	
	Specimen 1 1m straight length of seal (Linear length 1000 mm)	Specimen 2 'T' shaped lengths of seal (Linear length 1475 mm)
50	0.02	0.01
300	0.35	0.13
600	0.42	0.26
Notes: 1. The values in the table above are the fully corrected figures 2. Air leakage was detected between the silicone sealant and the substrate. 3. Zero detectable air leakage through the sealant 4. Specimen 1 showed most air leakage while Specimen 2 was the most airtight.		

3.2.2 Dangerous substances

The declaration satisfies the Essential Requirement 3: Hygiene, health and environment: 5: Release of dangerous substances of EAD 350141-00-1106.

3.3 Safety in Use

3.3.1 Durability and serviceability

Nullifire FS703 Intusil has been tested in accordance with EOTA Technical Report - TR024 – Edition November 2006, for the type X use category specified in EAD 350141-00-1106, and the results of the tests have demonstrated suitability for linear joint seals intended for use in conditions exposed to weathering.

4. Assessment and Verification of Constancy of Performance (hereinafter AVCP) System Applied, with reference to its Legal Base

According to the decision 1999/454/EC of the European Commission the system of assessment and verification of constancy of performance (see Annex V to the Regulation (EU) No 305/2011) given in the following table apply:

Products	Intended uses	Level or Class	System
Fire stopping and fire sealing products	For fire compartmentation and / or fire protection or fire performance	Any	System 1

5. Technical Details Necessary for the Implementation of the AVCP System, as Provided for in the Applicable EAD

5.1 Tasks for the Manufacturer

5.1.1 Factory production control

The manufacturer has a Factory Production Control System (FPC) and exercises permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer are documented in a systematic manner in the form of policies, procedures and work instructions. This FPC system ensures that the product is in conformity with this European Technical Assessment.

The manufacturer shall only use raw materials or components that are supplied with the relevant inspection documents as laid down in the Control Plan. All incoming raw materials shall be subject to inspection, verification, controls and tests (as applicable) by the manufacturer.

The Control Plan, Reference, 4.10.13, which is part of the technical documentation of this European Technical Assessment includes details of the extent, nature and frequency of testing and controls to be performed within the FPC system and has been agreed between the Assessment holder and Element Materials Technology Rotterdam B.V. Any changes to the FPC; Control Plan or the Product shall only be made following approval by Element Materials Technology Rotterdam B.V.

The results of FPC are recorded and evaluated. These records include but are not limited to:

- Product specification and designation, basic materials and components
- Type(s) of Control testing
- Date of manufacture of the product and date of testing of the product or basic material and components;
- Result of control and testing and, if appropriate, comparison with requirements;
- Signature of the person responsible for FPC

These records shall be presented to Element Materials Technology Rotterdam B.V. upon request.

The manufacturer shall, on the basis of a contract, involve a body (bodies) which is (are) approved for the tasks referred to in section 5.2 of this ETA. For this purpose, the "Control Plan" referred to in sections 5.1.1 and 5.2 shall be handed over by the manufacturer to the approved body or bodies involved.

5.1.2 Other tasks of manufacturer

5.1.2.1 Additional information

The manufacturer shall provide a technical data sheet and an installation instruction with the following minimum information:

(a) Technical data sheet:

- Field of application:
 - Building elements for which the linear joint seal is suitable, type and properties of the building elements like minimum thickness, density, and - in case of lightweight constructions – the construction requirements.

Limits in size, minimum thickness etc. of the linear joint seal

- Construction of the linear joint seal including the necessary components and additional products (e.g. backfilling material) with clear indication whether they are generic or specific.
- (b) Installation instruction:
- Steps to be followed
 - Procedure in case of retrofitting.

The manufacturer shall, on the basis of a contract, involve a body which is approved for the tasks referred to in section 3.1 in the field of linear joint seals in order to undertake the actions laid down in section 3.3. For this purpose, the "control plan" referred to in sections 3.2.1.1 and 3.2.2 shall be handed over by the manufacturer to the approved body or bodies involved.

The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of this European technical assessment.

5.2 Tasks of approved bodies

5.2.1 Initial Type Testing of the Product

For initial type-testing the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases the necessary type testing has to be agreed between TAB and the Notified Body.

5.2.2 Initial Inspection of Factory and of Factory Production Control

The Notified Body shall ascertain that, in accordance with the provisions laid down in the Control Plan, Reference 4.10.13, the factory and the factory production control are suitable to ensure continuous and orderly manufacturing of the product according to the specifications mentioned in Section 2, as well as to the Annexes to this European Technical Assessment.

5.2.3 Continuous Surveillance

The Notified Body shall visit the factory twice a year for regular inspection. It shall be verified that the system of factory production control and the specified manufacturing process is maintained in accordance with the provisions of this European Technical Assessment and the Control Plan.

Continuous surveillance and assessment of factory production control shall be performed in accordance with the provisions laid down in the agreed Control Plan.

The results of product certification and continuous surveillance shall be made available on demand by the certification or inspection body or to Element Materials Technology Rotterdam B.V. In cases where the provisions of this European Technical Assessment and the prescribed Control Plan are no longer fulfilled, the conformity certificate shall be withdrawn and the relevant authority/ies shall be informed.

Issued in Amsterdam, Netherlands on 2020/12/17

By

A handwritten signature in black ink, appearing to read "Paul Duggan", enclosed within a thin black rectangular border.

Paul Duggan
Deputy TAB Manager

Annex A

Reference Documents

EN 13501-1	Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests
EN 13501-2	Fire classification of construction products and building elements – Part 2: Classification using test data from fire resistance tests
EOTA TR 024	Characterisation, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products

Annex B

Description of Product

Nullifire FS703 Intusil

A detailed specification of the product is contained in document “Evaluation Report” relating to this European Technical Assessment of The Nullifire FS703 Intusil which is a non-public part of this ETA.

Annex C

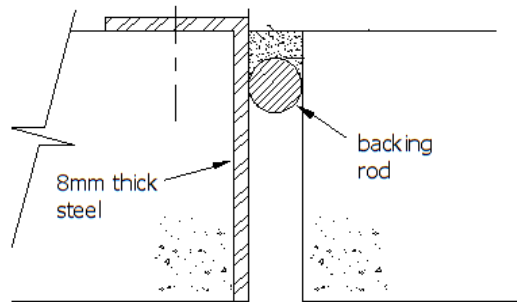
Resistance to Fire Classification of Nullifire FS703 Intusil

C.1 Rigid floor constructions according to 2.2.1 with floor thickness of minimum 150 mm

C.1.1 Linear joint or gap seal, horizontally orientated with sealant to the unexposed face.

Construction details:

- PE Backer installed as depth gauge



C.1.1.1

'FS703 Silicone Sealant' Linear Joint Seals in Rigid Floors 150 mm thick (min.) –				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
2:1 Ratio 2= width 1= depth	PE Backing Rod	AAC-Steel	Unexposed Face	E180 EI45– H – X – F – W 12-30
				E120 EI30– H – X – F – W 31-50

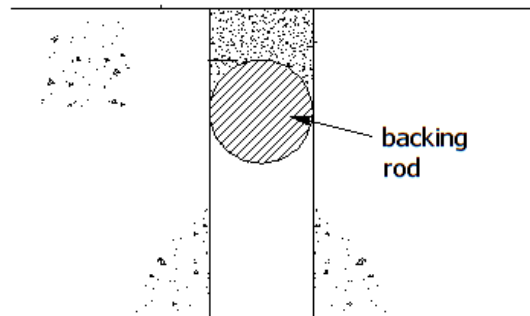
Resistance to Fire Classification of Nullifire FS703 Intusil

C.2 Rigid floor constructions according to 2.2.1 with floor thickness of minimum 150 mm

C.2.1 Linear joint or gap seal, horizontally orientated with sealant to the unexposed face.

Construction details:

- PE Backer installed as depth gauge



C.2.1.1

'FS703 Silicone Sealant' Linear Joint Seals in Rigid Floors 150 mm thick (min.) –				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
2:1 Ratio 2= width 1= depth	PE Backing Rod	AAC-AAC	Unexposed face	E180 EI60 – H – X – F – W 12-30
				E240 EI90– H – X – F – W 31-50

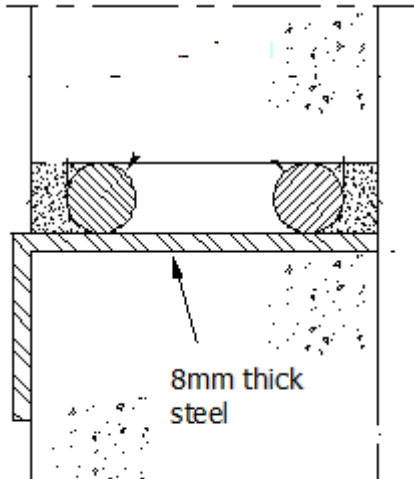
Resistance to Fire Classification of Nullifire FS703 Intusil

C.3 Rigid wall constructions according to 2.2.1 with wall thickness of minimum 150 mm

C.3.1 Linear joint or gap seal, horizontally orientated with sealant to both faces.

Construction details:

- PE Backer installed as depth gauge



C.3.1.1

'FS703 Silicone Sealant' Linear Joint Seals in Walls 150 mm thick (min.) –				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
2:1 Ratio 2= width 1= depth	PE Backing Rod	AAC-Steel	Both faces	E240 EI60 – T – X – F – W 12-29
				E240 EI90 – T – X – F – W 30-50

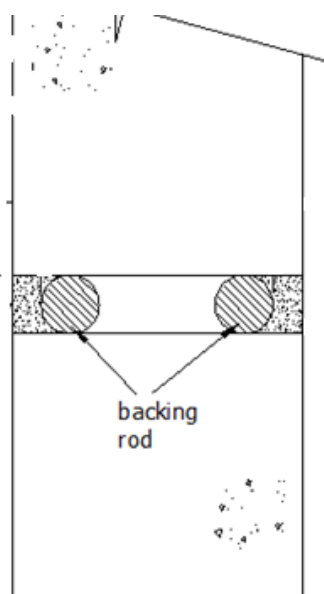
Resistance to Fire Classification of Nullifire FS703 Intusil

C.4 Rigid wall constructions according to 2.2.1 with wall thickness of minimum 150 mm

C.4.1 Linear joint or gap seal, horizontally orientated with sealant to both faces.

Construction details:

- PE Backer installed as depth gauge



C.4.1.1

‘FS703 Silicone Sealant’ Linear Joint Seals in Walls 150 mm thick (min.) –				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
2:1 Ratio 2= width 1= depth	PE Backing Rod	AAC-AAC	Both faces	EI240 – V – X – F – W 12-50
				EI240 – T – X – F – W 12-30

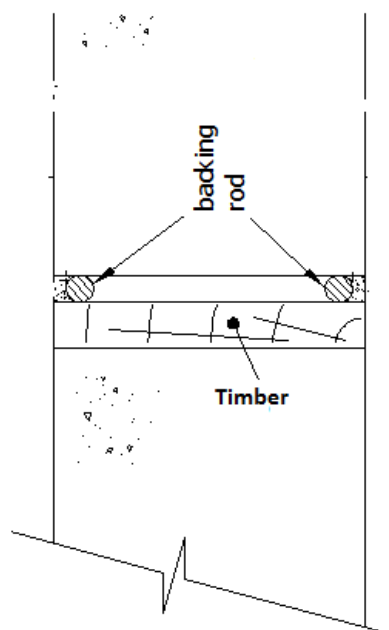
Resistance to Fire Classification of Nullifire FS703 Intusil

C.5 Rigid wall constructions according to 2.2.1 with wall thickness of minimum 150 mm

C.5.1 Linear joint or gap seal, horizontally orientated with sealant to both faces.

Construction details:

- PE Backer installed as depth gauge



C.5.1.1

‘FS703 Silicone Sealant’ Linear Joint Seals in Walls 150 mm thick (min.) –				
Depth Sealant	Backing	Substrates	Seal Orientation	Classification
2:1 Ratio 2= width 1= depth	PE Backing Rod	AAC-Softwood	Both faces	EI120 – V – X – F – W 12-30
		AAC-Hardwood		EI120 – V – X – F – W 12-30