

# European Technical Assessment

**ETA 25/1257**

Version 01

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UBA<sup>t</sup>c Assessment Operator**Buildwise**

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**Technical Assessment Body issuing the European Technical Assessment: UBA<sup>t</sup>c.****UBA<sup>t</sup>c has been designated according to Article 29 of Regulation (EU) No 305/2011 and is member of EOTA (European Organisation for Technical Assessment)****Trade name of the construction product:**

Firefoam 1C

**Product family to which the construction product belongs:**

35 - Fire stopping sealant for fire stopping of linear gap seals

**Manufacturer:**

KuhnOdice France SAS  
Z.A.E. Les Dix Muids  
59770 Marly  
France

**Manufacturing plant(s):**

KuhnOdice 01

**Website:**<https://kuhnodice.com>**This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) No 2024/3110, on the basis of:**

European Assessment Document (EAD) :  
EAD 350141-00-1106: "Fire stopping and fire sealing products: Linear joint and gap seals"

**This European Technical Assessment contains:**

8 pages, including 3 annexes which form an integral part of this European Technical Assessment



## European Organisation for Technical Assessment

## Legal bases and general conditions

- 1 This European Technical Assessment is issued by UBAtc (Union belge pour l'Agrément technique de la construction, i.e. Belgian Union for technical Approval in construction), in accordance with:
  - Article 95(4) of the Regulation (EU) No 2024/3110<sup>1</sup> of the European Parliament and of the Council of 27 November 2024 laying down harmonised conditions for the marketing of construction products and repealing Regulation (EU) No 305/2011
  - Commission Implementing Regulation (EU) No 1062/2013<sup>2</sup> of 30 October 2013 on the format of the European Technical Assessment for construction products
  - European Assessment Document (EAD): EAD 350141-00-1106
- 2 Under the provisions of Regulation (EU) No 3205/2011, UBAtc is not authorized to check whether the provisions of this European Technical Assessment are met once the ETA has been issued.
- 3 The responsibility for the conformity of the performances of the products with this European Technical Assessment and the suitability of the products for the intended use remains with the holder of the European Technical Assessment.
- 4 Depending on the applicable Assessment and verification of constancy of performance (AVCP) system, (a) notified body(ies) may carry out third-party tasks in the process of assessment and verification of constancy of performance under this Regulation once the European Technical Assessment has been issued.
- 5 This European Technical Assessment allows the manufacturer of the construction product covered by this ETA to draw up a declaration of performance for the construction product.
- 6 CE marking should be affixed to all construction products for which the manufacturer has drawn up a declaration of performance.
- 7 This European Technical Assessment is not to be transferred to other manufacturers, agents of manufacturers, or manufacturing plants other than those indicated on page 1 of this European Technical Assessment.
- 8 The European Technical Assessment holder confirms to guarantee that the product(-s) to which this assessment relates, is/are produced and marketed in accordance with and comply with all applicable legal and regulatory provisions, including, without limitation, national and European legislation on the safety of products and services. The ETA-holder shall notify the UBAtc immediately in writing of any circumstance affecting the aforementioned guarantee. This assessment is issued under the condition that the aforementioned guarantee by the ETA-holder will be continuously observed.
- 9 According to Article 11(6) of Regulation (EU) No 305/2011, when making a construction product available on the market, the manufacturer shall ensure that the product is accompanied by instructions and safety information in a language determined by the Member State concerned which can be easily understood by users. These instructions and safety information should fully correspond with the technical information about the product and its intended use which the manufacturer has submitted to the responsible Technical Assessment Body for the issuing of the European Technical Assessment.
- 10 Pursuant to Article 11(3) of Regulation (EU) No 305/2011, manufacturers shall adequately take into account changes in the product-type and in the applicable harmonised technical specifications. Therefore, when the contents of the issued European Technical Assessment do not any longer correspond to the product-type, the manufacturer should refrain from using this European Technical Assessment as the basis for their declaration of performance.
- 11 All rights of exploitation in any form and by any means of this European Technical Assessment are reserved for UBAtc and the ETA-holder, subject to the provisions of the applicable UBAtc regulations.
- 12 Reproduction of this European Technical Assessment including transmission by electronic means shall be in full. However, partial reproduction can be made with the written consent of UBAtc. In this case partial reproduction has to be designated as such. Texts and drawings of advertising brochures shall not contradict or misuse the European Technical Assessment.
- 13 Subject to the application introduced, this European Technical Assessment is issued in English and may be issued by the UBAtc in its official languages. The translations correspond fully to the English reference version circulated in EOTA.
14. This European Technical Assessment was first issued by UBAtc on 16 April 2026.

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<sup>1</sup> OJEU, L series of 2024/12/18

<sup>2</sup> OJEU, L 289 of 2013/10/31

# Technical Provisions

## 1 Technical description of the product

### 1.1 Characteristics of the products

This European Technical Assessment is being issued for the product Firefoam 1C on the basis of agreed data/information, deposited with the UBAtc, which identifies the product that has been assessed. Changes to the product/production process, which could result in the deposited data/information being incorrect, should be notified to the UBAtc before the changes are introduced. The UBAtc will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment/alterations to the ETA, shall be necessary.

### 1.2 Firefoam 1C

Firefoam 1C is a one component self-expanding fire retardant polyurethane foam.

The technical product characteristics have been determined on the basis of the provisions given in the relevant clauses of Annex B of EAD 350141-00-1106. Results of these tests are part of the agreed data/information, deposited with the UBAtc, which identifies the product that has been assessed.

Installation of Firefoam 1C: see clause 2.4.2.

## 2. Specification of the intended use in accordance with the applicable EAD

### 2.1 Intended use

Firefoam 1C is intended to be used as a fire stopping sealant for non-movement joints and seals in rigid walls and floors (see Annex III).

The specific elements of construction for which Firefoam 1C may be used to provide a linear joint seal, are as follows:

- Rigid walls: the wall shall have a minimum thickness of 100 mm, 140 mm or 200 mm and comprise concrete or masonry with a minimum density of 550 kg/m<sup>3</sup>.
- Rigid floors: the floor shall have a minimum thickness of 150 mm and comprise concrete with a minimum density of 550 kg/m<sup>3</sup>.

The supporting construction shall be classified according to EN 13501-2 for the required fire resistance period.

Firefoam 1C may also be used as backfilling material in combination with the sealant Acrylodice F or in combination with these sealants as backfilling material.

### 2.2 Use Category

The use category for Firefoam 1C is Z<sub>2(+5/+40)</sub> intended for use the following environmental conditions

Table 1: intended use

Environmental conditions	EAD 350141-00-1106 Type
Internal conditions with humidity lower than 85% RH, excluding temperatures below 0°C	Z <sub>2</sub>

### 2.3 Working life/Durability

The provisions made in this European Technical Assessment are based on an assumed intended working life of 10 years.

Indications given regarding the working life cannot be interpreted as a guarantee given by the producer or the UBAtc, but are to be regarded only as a means for choosing the appropriate product(s) in relation to the expected economically reasonable working life of the construction works.

### 2.4 Assumptions under which the product was assessed

#### 2.4.1 Manufacturing directives

The fire stopping and sealing product Firefoam 1C is manufactured and packaged by KuhnOdice France S.A.S. in its production facility KuhnOdice 01.

#### 2.4.2 Installation

Installation shall be performed by trained installers.

Preparation of the surface:

- Firefoam 1C adheres to most substrates (concrete, masonry, gypsum, etc) without a primer. Very porous substrates may be pre-treated with a primer. It is recommended to perform an adhesion test prior to application.
- The surface shall be clean, dry, and free of dust, oil and grease.

Joint size:

- Width: up to 40 mm;
- Depth: the same as thickness of the wall or floor.

Application of the Firefoam 1C:

- Application temperature: between +5°C and + 30°C
- Insert backing material if applicable
- Shake Firefoam 1C for at least 20 seconds before use;
- Put the adapter on the valve;
- Moisture the surfaces with a water sprayer prior to application;
- Apply the Firefoam 1C. Fill holes and cavities for 65% as the foam will expand;
- If several layers are applied, repeat moistening after each layer.
- Smooth the sealant surface before skin formation with a moist brush or spatula
- Fresh foam can be removed with acetone;
- Cured foam can only be removed mechanically;
- Cured foam shall be protected against UV-radiation.

#### 2.4.3 Packaging, transport and storage

Firefoam 1C is available in aerosol cans of 750 ml.

The product has a shelf life of at least 15 months in unopened packaging when stored in a dry place between +5°C and +25°C. Upright storage is recommended.

#### 2.4.4 Curing behaviour

- Density of cured foam: the density of Firefoam 1C has been assessed according to EAD 350141-00-1106, clause B.6.2.

Result: (41,8 ± 1,8) kg/m<sup>3</sup>

- Tack free time has been assessed according to EAD 350141-00-1106, clause B.9.1).

Result: 7,5 min. at 20°C and 60% R.H.

#### 2.4.5 Use, maintenance and repair

Firefoam 1C does not need any maintenance during the working life indicated in this ETA.

Local repairs may be performed with Firefoam 1C.

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

#### 3.1 Safety in the case of fire (BWR2)

##### 3.1.1 Reaction to fire

The reaction to fire classification of Firefoam 1C is class E according to EN 13501-1.

##### 3.1.2 Resistance to fire

Firefoam 1C has been tested in accordance with EN 1366-4:2021, installed in linear joint seals in rigid walls and floors.

Based upon these test results and the field of direct application specified in EN 1366-4:2021, Firefoam 1C has been classified in accordance with EN 13501-2 (see Annex III).

#### 3.2 Hygiene, health and environment (BWR3)

No performance assessed.

#### 3.3 Safety in use (BWR4)

##### 3.3.1 Mechanical resistance and stability

The maximum joint width is 40 mm. According to EAD 350141-00-1106, impact tests are not required.

##### 3.3.2 Resistance to impact/movement

This test is not required as the maximum seal width is less than 150 mm.

##### 3.3.3 Adhesion

No performance assessed.

##### 3.3.4 Durability

Firefoam 1C has been assessed in accordance with EAD 350141-00-1106 for the use category Z<sub>2,(5/+40)</sub>.<sup>3</sup>

##### 3.3.5 Movement capability

No performance assessed.

##### 3.3.6 Cycling of perimeter seals for curtain walls

No performance assessed.

##### 3.3.7 Compression set

No performance assessed.

##### 3.3.8 Linear expansion on setting

No performance assessed.

#### 3.4 Protection against noise (BWR5)

No performance assessed.

#### 3.5 Energy economy and heat retention (BWR6)

No performance assessed.

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

In accordance with Regulation (EU) N° 3110/2024, Article 94, Regulation (EU) N° 305/2011 is repealed, but references to the repealed Regulation shall be construed as references to the Regulation.

For the products covered by EAD 350141-00-1106 the applicable European legal act is Decision 1999/454/EC (EU).<sup>4</sup>

The system is: system 1

### 5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

#### 5.1 Tasks for the Manufacturer

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this ETA.

The manufacturer may only use constituent materials stated in the technical documentation of this ETA.

The factory production control shall be in accordance with the "Control Plan" relating to the ETA which is part of the technical documentation of this ETA. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at the UBAtc and shall be in agreement with the provisions given in Table 3.2 of EAD 350141-00-1106.

The results of factory production control shall be recorded and evaluated in accordance with the provisions of the "Control Plan".

#### 5.2 Tasks of notified bodies

The notified body (bodies) shall perform the tasks specified in Regulation (EU) N° 305/2011, Annex V, clause 1.2 (b).

The notified body (bodies) shall retain the essential points of its (their) actions referred to above and state the results obtained and conclusions drawn in (a) written report (reports).

In cases where the provisions of the ETA and its "Control Plan" are no longer fulfilled the notified body shall inform the UBAtc without delay.

<sup>3</sup> see also EOTA Technical Report TR 024 – Edition November 2006, clause 4.2.7

<sup>4</sup> OJEU, L 178/52 of 1999/07/14, p.3

## Annex I: Reference documents

### References to standards mentioned in the ETA:

EAD 350141-00-1106:2017	Fire stopping and fire sealing products: linear joint and gap seals
EN 1366-4:2021	Fire resistance tests for service installations - Part 4: Linear joint seals
EN 13501-1:2018	Fire classification of construction products and building elements – Part 1: Classification using test data from reaction to fire tests
EN 13501-2:2023	Fire classification of construction products and building elements – Part 2: Classification using test data from fire resistance tests

### Other reference documents:

EOTA TR 024:2019	Characterization, Aspects of Durability and Factory Production Control for Reactive Materials, Components and Products
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## Annex II: Description of the products

### 1 Firefoam 1C

A detailed specification of Firefoam 1C is in the "Control Plan" and the agreed data/information, deposited with the UBAtc, which identifies the product that have been assessed of Firefoam 1C relating to this ETA.

### 2 Acrylodice F

Acrylodice F is a fire retardant sealant based on an acrylic dispersion with plasto-elastic properties.

## Annex III: Resistance to fire classification of linear joint seals made with Firefoam 1C

### 1 Linear joints in rigid wall constructions

#### 1.1 Firefoam 1C

Thickness of the wall (mm)	Density (kg/m <sup>3</sup> )	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
100	550	Vertical	Symmetrical	The joint is filled completely with Firefoam 1C	EI120 – V – X – F – W0 to W10
100	550	Vertical	Symmetrical	The joint is filled completely with Firefoam 1C	EI60 – V – X – F – W0 to W20
100	550	Vertical	Symmetrical	The joint is filled completely with Firefoam 1C	EI45 – V – X – F – W0 to W30
140	550	Horizontal	Symmetrical	The joint is filled completely with Firefoam 1C	EI120 – T – X – W0 to W10
140	550	Horizontal	Symmetrical	The joint is filled completely with Firefoam 1C	EI90 – T – X – W0 to W30
200	550	Vertical	Symmetrical	The joint is filled completely with Firefoam 1C	EI240 – V – X – F – W0 to W10
200	550	Vertical	Symmetrical	The joint is filled completely with Firefoam 1C	EI180 – V – X – F – W0 to W20
200	550	Vertical	Symmetrical	The joint is filled completely with Firefoam 1C	EI120 – V – X – F – W0 to W40

#### 1.2 Firefoam 1C in combination with sealants

Thickness of the wall (mm)	Density (kg/m <sup>3</sup> )	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
100	550	Vertical	Asymmetrical	The exposed side is filled throughout a depth of 20 mm with Acrylodice F and the unexposed (*) side is further filled with Firefoam 1C up to the sealant	EI120 – V – X – F – W0 to W10
100	550	Vertical	Asymmetrical	The exposed side is filled throughout a depth of 20 mm with Acrylodice F and the unexposed (*) side is further filled with Firefoam 1C up to the sealant	EI90 – V – X – F – W0 to W20
100	550	Vertical	Asymmetrical	The unexposed (*) side is filled throughout a depth of 20 mm with Acrylodice F and the exposed side is further filled with Firefoam 1C up to the sealant	EI90 – V – X – F – W0 to W20
100	550	Vertical	Symmetrical	The exposed and unexposed (*) side is filled throughout a depth of 3 mm with Acrylodice F the empty space in between is filled up with Firefoam 1C (94 mm)	EI90 – V – X – F – W0 to W30
200	550	Vertical	Asymmetrical	The exposed side is filled throughout a depth of 20 mm with Acrylodice F and the unexposed (*) side is further filled with Firefoam 1C up to the sealant	EI240 – V – X – F – W0 to W30

(\*) The unexposed side is the side that is on the opposite side of the fire.

## 2 Linear joints in floor constructions

### 2.1 Firefoam 1C

Thickness of the floor (mm)	Density (kg/m <sup>3</sup> )	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
150	550	Horizontal	Symmetrical	The joint is filled completely with Firefoam 1C	EI120 – V – X – F – W0 to W20
150	550	Horizontal	Symmetrical	The joint is filled completely with Firefoam 1C	EI90 – V – X – F – W0 to W30

### 2.2 Firefoam 1C in combination with sealants

Thickness of the floor (mm)	Density (kg/m <sup>3</sup> )	Orientation of the joint	Symmetrical / Asymmetrical	Composition of the joint seal	Classification
150	550	Horizontal	Asymmetrical	The exposed side is filled throughout a depth of 20 mm with Acrylodice F and the unexposed (*) side is further filled with Firefoam 1C up to the sealant	EI120 – H – X – F – W0 to W30
150	550	Horizontal	Asymmetrical	The unexposed (*) side is filled throughout a depth of 20 mm with Acrylodice F and the exposed side is further filled with Firefoam 1C up to the sealant	EI120 – H – X – F – W0 to W30
150	550	Horizontal	Symmetrical	The exposed and unexposed (*) side is filled throughout a depth of 3 mm with Acrylodice F the empty space in between is filled up with Firefoam 1C (144 mm)	EI60 – H – X – F – W0 to W30

(\*) The unexposed side is the side that is on the opposite side of the fire.

UBAtc asbl is a non-profit organization according to Belgian law. It is a Technical Assessment Body notified by the Belgian notifying authority, the Federal Public Services Economy, SMEs, Self-Employed and Energy, on 17 July 2013 in the framework of Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 laying down harmonised conditions for the marketing of construction products and repealing Council Directive 89/106/EEC. As a transitional provision this notification shall be deemed to apply to the Regulation (EU) No 2024/3110 of the European Parliament and of the Council of 27 November 2024 laying down harmonised conditions for the marketing of construction products and repealing Regulation (EU) No 305/2011.

UBAtc asbl is member of the European Organisation for Technical Assessment, EOTA ([www.eota.eu](http://www.eota.eu)).

This European Technical Assessment has been issued by UBAtc asbl, in Sint-Stevens-Woluwe, on the basis of the technical work carried out by the Assessment Operators, Buildwise and SECO Belgium.

On behalf of UBAtc asbl,



Bart De Pauw  
General Manager

On behalf of the Assessment Operator,  
Buildwise and SECO Belgium, responsible for  
the technical content of the ETA,



Olivier Vandooren,  
CEO Buildwise



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The most recent version of this European Technical Assessment may be consulted on the UBAtc website ([www.butgb-ubatc.be](http://www.butgb-ubatc.be)).