

Project number:4791024906



**CLASSIFICATION REPORT**

On (product): Elastomeric acrylic polymer Sealant designated as "AeroBarrier X1- Airtightness sealant"

In accordance with:

**EN 13501-1: 2018**

Reaction to Fire - Fire classification of construction products and building elements

On behalf of:           Aeroseal LLC.  
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Report Issued Date: 2025-03-25



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## 1. Introduction

This classification report defines the classification assigned to the Elastomeric acrylic polymer Sealant designated as "AeroBarrier X1- Airtightness sealant" by the procedures given in BS EN 13501-1: 2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.

## 2. Details of classification product

### 2.1 General

The product is a Elastomeric acrylic polymer Sealant designated as "AeroBarrier X1- Airtightness sealant".

### 2.2 Product Description

The product is a Waterborne Acrylic Sealant designated as "AeroBarrier X1- Airtightness sealant" is fully described in the test report provided in support of classification as detailed in clause 3.1.

<b>General product description</b>		Waterborne Acrylic Sealant
<b>Product Reference</b>		"AeroBarrier X1- Airtightness sealant".
<b>Colour reference</b>		Not declared*
<b>Top Coat</b>	<b>Type</b>	Acrylic Sealant*
	<b>Product Reference</b>	"AeroBarrier X1- Airtightness sealant".*
	<b>Manufacturer</b>	Aeroseal LLC.*
	<b>Colour</b>	Not declared*
	<b>Number of Coats</b>	1*
	<b>Avg.Thickness (Dry Film)</b>	91 Microns*
	<b>Density</b>	1060 kg/m <sup>3</sup> *
	<b>Area weight</b>	0.97 Kg/m <sup>2</sup>
<b>Flame Retardant Details</b>		no additional flame retardants were used in the product*
<b>Substrate</b>	<b>Type</b>	Knauf Fire Panel*
	<b>Manufacturer</b>	Knauf*
	<b>Thickness</b>	12.5mm*
	<b>Fire Classification</b>	A2-s1, d0*
	<b>Density</b>	800 kg/m <sup>3</sup> *

\*Note 1: The sponsor of the test has confirmed that no flame-retardant additives were utilized in the production of the product/component.

\*Note 2: The sponsor was unable to provide this information

\* Information provided by the sponsor

## 3. Test reports in support of classification

### 3.1 Summary of test reports

Name of laboratory	Name of sponsor	Test reports/Summary report Numbers	Test method
LGAI Technological Center, S.A. (APPLUS)	Aeroseal LLC.	25/32300122-1	BS EN ISO 1716:2010*

LGAI Technological Center, S.A. (APPLUS)	Aeroseal LLC.	25/32300122-1	BS EN 13823:2020+A1:2022*
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### 3.2 Results

Test Method	Parameter	Number of Tests	Results	
			Continuous Parameter - mean (m)	Compliance with parameters
EN 13823:2020+A1:2022 *	Figra <sub>0.2MJ</sub>	3	27 W/s	Compliant
	Figra <sub>0.4MJ</sub>		6 W/s	Compliant
	THR <sub>600s</sub>		1.1 MJ	Compliant
	LFS		< to edge	Compliant
	SMOGRA		0 (m <sup>2</sup> /s <sup>2</sup> )	Compliant
	TSP <sub>600s</sub>		7 m <sup>2</sup>	Compliant
	Flaming droplets/particles in 600s		None	Compliant
BS EN ISO 1716:2010	- Sealant (Non-substantial layer)	3	2.59 MJ/m <sup>2</sup>	Compliant

### 4. Classification and field of application

#### 4.1 Reference of classification

This classification has been carried out by Clause 8 of EN 13501-1:2018. Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.

#### 4.2 Classification

The product Elastomeric acrylic polymer Sealant designated as "AeroBarrier X1-Airtightness sealant" in relation to their reaction to fire behaviour is classified:

Fire Behaviour		Smoke Production		Flaming droplets/Particles
A2	-	s1	,	d0

Reaction to fire classification:

**A2-s1,d0**

This classification is only valid for the final condition of use described in the present report

**4.3 Field of Application**

The classification of this product is valid only for the following end-use applications

<b>Thickness</b>	Anything below test values is permitted.
<b>Colour/ pattern</b>	No variation allowed
<b>Density</b>	No variation allowed
<b>Weight per unit area</b>	Anything below test values is permitted.
<b>Composition</b>	No variation allowed
<b>Product construction</b>	No variation allowed
<b>Substrate</b>	<p>The Elastomeric acrylic polymer Sealant designated as "AeroBarrier X1- Airtightness sealant" can be classified as A2-s1,d0 only when applied on Gypsum plasterboards or any A2-s1,d0 or A1 fire classified substrates (Which includes calcium silicate board, Fire cement boards fiber cement boards, RCC walls, Brick walls etc) according to EN 13501-1 with below properties.</p> <p>The density of the substrate shall not be less than 600 kg/m<sup>3</sup>*</p> <p>The thickness of the substrate shall not be less than 12.5mm.</p>
<b>Colour</b>	No variation allowed

\*With reference to EN 13238: 2001.

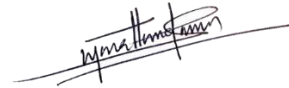
**5. Limitations**

This classification document does not represent type approval or certification of the product.

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**6. Signatories**

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