

## European Technical Assessment

**ETA 16/0520**  
of 27.09.2022



### General part

#### Technical Assessment Body issuing the ETA: ITeC

ITeC 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**

**Protecta Interior Paint FR-1**

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

Fire retardant products.

**Manufacturer**

**POLYSEAM LTD**  
15 St Andrews Road  
Huddersfield  
West Yorkshire  
HD1 6SB, UK

**Manufacturing plant(s)**

According to Annex N kept by ITeC.

**This European Technical Assessment contains**

5 pages  
and  
Annex N, which contains confidential information and is not included in the European Technical Assessment when that assessment is publicly available.

**This European Technical Assessment is issued in accordance with Regulation (EU) 305/2011, on the basis of**

European Assessment Document EAD 350865-00-1106.

**This version replaces**

ETA 16/0520, issued on 26.02.2018

**General comments**

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential annex(es)).

## Specific parts of the European Technical Assessment

### 1 Technical description of the product

Protecta Interior Paint FR-1 is a water based intumescent coating designed to reduce the ignitability of timber-based boards, applied by brush, roller or spray gun, directly on the substrate or over the paints as specified in section 2.

### 2 Specification of the intended use(s) in accordance with the applicable EAD

Protecta Interior Paint FR-1 is used as fire retardant product to enhance the reaction to fire performance of a timber substrate surface of a construction product, excluding floorings.

Substrates must be dry and free from grease, dirt, dust, and other contaminants. Existing coatings other than the paints specified below must be completely removed.

Protecta Interior Paint FR-1 can be applied to:

- a. Any wood-based substrate with a thickness  $\geq 12$  mm and a density  $\geq 510$  kg/m<sup>3</sup>.  
Protecta Interior Paint FR-1 shall be applied at a rate (wet) between 310 g/m<sup>2</sup> and 520 g/m<sup>2</sup>, resulting in an approximate wet film thickness between 220  $\mu$ m and 370  $\mu$ m homogeneously distributed over the substrate surface.
- b. Any wood-based substrate with a thickness  $\geq 12$  mm and a density  $\geq 510$  kg/m<sup>3</sup>, overpainted with Dulux Endurance + Matt Pure Brilliant White acrylic based paint, applied at a rate (wet) of 105 g/m<sup>2</sup>, resulting in a wet film thickness of 77  $\mu$ m.  
Protecta Interior Paint FR-1 shall be applied at a rate (wet) of 390 g/m<sup>2</sup>, resulting in an approximate wet film thickness of 280  $\mu$ m homogeneously distributed over the substrate surface.
- c. Any wood-based substrate with a thickness  $\geq 12$  mm and a density  $\geq 510$  kg/m<sup>3</sup>, overpainted with Dulux Trade Satinwood Pure Brilliant White solvent-based paint, applied at a rate (wet) of 76 g/m<sup>2</sup>, resulting in a wet film thickness of 59  $\mu$ m.  
Protecta Interior Paint FR-1 shall be applied at a rate (wet) of 390 g/m<sup>2</sup>, resulting in an approximate wet film thickness of 280  $\mu$ m homogeneously distributed over the substrate surface.

The wood-based substrate can be installed with a ventilated or a non-ventilated air gap behind, as well as without air gap.

Regarding the environmental conditions, Protecta Interior Paint FR-1 is intended for use category Type Z<sub>2</sub>, defined as internal conditions with humidity lower than 85 % R.H., excluding temperatures below 0°C, in accordance with EAD 350865-00-1106, section 1.2.1.

The provisions made in this ETA are based on a working life of Protecta Interior Paint FR-1 of at least 5 years, provided that the conditions laid down in the manufacturer's instructions for the installation, use and maintenance are met. These provisions are based upon the current state of the art and the available knowledge and experience.

The indications given as to the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, 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 works.

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

#### 3.1 Performance of the product

The assessment of Protecta Interior Paint FR-1 has been performed in accordance with EAD 350865-00-1106 *Fire retardant products (July 2018)*.

**Table 1:** Performance of the product.

Product: Protecta Interior Paint FR-1		Intended use: Fire retardant product	
Basic requirement	Essential characteristic		Performance
BWR 2 Safety in case of fire	Reaction to fire	System a (section 2)	B-s1,d0
		System b (section 2)	B-s1,d0
		System c (section 2)	B-s2,d0
	Durability		Type Z <sub>2</sub>

The rest of characteristics included in EAD 350865-00-1106 have not been assessed in this ETA.

#### 3.2 Methods used for the assessment

##### 3.2.1 Reaction to fire

The performance of Protecta Interior Paint FR-1 has been tested according to EN 13823 <sup>1</sup> and EN ISO 11925-2 <sup>2</sup> on particleboards according to EN 312 <sup>3</sup>.

Classification is given in accordance with EN 13501-1 <sup>4</sup> and Regulation (EU) 2016/364.

Apart from the substrates specified in section 2, classification is also valid for any substrate of class A1 or A2-s1,d0.

<sup>1</sup> EN 13823 *Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item.*

<sup>2</sup> EN ISO 11925-2 *Reaction to fire tests. Ignitability of products subjected to direct impingement of flame. Part 2: Single-flame source test.*

<sup>3</sup> EN 312 *Particleboards. Specifications.*

<sup>4</sup> EN 13501-1 *Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests.*

### 3.2.2 Durability

The durability of Protecta Interior Paint FR-1 has been tested for environmental use conditions Type Z<sub>2</sub> in accordance with EAD 350865-00-1106, section 2.2.2.

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

According to the Decision 1999/454/EC of the European Commission, the system of AVCP (see EC delegated Regulation (EU) No 568/2014 amending Annex V to Regulation (EU) 305/2011) given in the following table applies.

**Table 2:** AVCP System.

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire protective products (including coatings)	Fire protection or fire performance	Any	1

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

All the necessary technical details for the implementation of the AVCP system are laid down in the *Control Plan* deposited with the ITeC and agreed in accordance with EAD 350865-00-1106, section 3.

The *Control Plan* is a confidential part of the ETA and only handed over to the notified product certification body involved in the assessment and verification of constancy of performance.

The factory production control operated by the manufacturer shall be in accordance with the above-mentioned *Control Plan*.

Issued in Barcelona on 27 September 2022

by the Catalonia Institute of Construction Technology.



Ferran Bermejo Nualart  
Technical Director, ITeC