The Catalonia Institute of Construction Technology

Wellington 19
ES-08018 Barcelona
Tel. +34 93 309 34 04
qualprod@itec.cat
itec.cat

Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA

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European Technical Assessment

ETA 16/0998
of 22.12.2016

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	**Graft Interior Paint FR-1**
Product family to which the construction product belongs	Fire retardant products
Manufacturer	**Polyseam Ltd** Shaw Park Silver Street Huddersfield, West Yorkshire HD5 9AF, 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	ETAG 028 *Fire retardant products*, version June 2012, used as European Assessment Document (EAD)

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

Graft 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. No additional products are required.

Graft Interior Paint FR-1 is applied at a loading of 520 g/m^2, resulting in an approximate wet film thickness of 370 µm homogeneously distributed over the substrate surface.

Substrates must be dry and free from grease, dirt, dust, and other contaminants. Existing coatings must completely be removed.

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

Graft 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.

Graft Interior Paint FR-1 can be applied to any wood based substrate with a thickness of at least 10 mm and a density greater than 510 kg/m^3.

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, Graft Interior Paint FR-1 is intended for use category Type Z_2, defined as internal conditions with humidity lower than 85% R.H., excluding temperatures below 0°C, in accordance with ETAG 028, section 1.2.

The provisions made in this ETA are based on a working life of Graft 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 of the construction product cannot be interpreted as a guarantee, but are regarded only as a means for choosing the appropriate products 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 Graft Interior Paint FR-1 considering the basic requirement for construction works 2 has been performed following the ETAG 028 for *Fire retardant products (June 2012)*, used as EAD.

Table 1: Performance of the product.

Product: Graft Interior Paint FR-1		**Intended use:** Fire retardant products
Basic requirement	**Essential characteristic**	**Performance**
BWR 2 Safety in case of fire	Reaction to fire	B-s1,d0
General aspects relating to the performance of the product	Durability	Type Z_2

The rest of characteristics included in ETAG 028 has not been assessed in this ETA.

3.2 Methods used for the assessment

3.2.1 Reaction to fire

The performance of Graft Interior Paint FR-1 has been tested according to EN 13823 [1] and EN ISO 11925 [2] on particleboards Type P2 according to EN 312 [3].

Classification is given in accordance with EN 13501-1 [4] 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.

3.2.2 General aspects relating to the performance of the product

Graft Interior Paint FR-1 has been tested for environmental use conditions Type Z_2 in accordance with ETAG 028, section 2.4.3.

The ETA is issued for the product on the basis of agreed data/information, deposited with the ITeC, in accordance with ETAG 028, section 5.

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[1] EN 13823:2010. *Reaction to fire tests for building products. Building products excluding floorings exposed to the thermal attack by a single burning item*.

[2] EN ISO 11925-2:2010. *Reaction to fire tests. Ignitability of products subjected to direct impingement of flame. Part 2: Single-flame source test.*

[3] EN 312:2010. *Particleboards. Specifications*.

[4] EN 13501-1:2007+A1:2009. *Fire classification of construction products and building elements. Part 1: Classification using data from reaction to fire tests.*

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 ETAG 028, section 3.2.1.

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 22 December 2016

by the Catalonia Institute of Construction Technology.

Ferran Bermejo Nualart

Technical Director, ITeC