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designated according to Article 29 of the Regulation (EU) No 305/2011 and member of EOTA (European Organisation for Technical Assessment, www.eota.eu)

European Technical Assessment

ETA 14/0039 of 06/02/2015

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: UL International (UK) Ltd

Trade name of the construction product G

Graft FR Acrylic

Product family to which the construction product belongs

Fire Stopping and Sealing Product:Linear Joint and Gap Seals

Manufacturer Polyseam AS

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This European Technical Assessment

contains

9 pages including 1 Annex which forms an

integral part of this assessment.

This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of

ETAG 026-3, edition 2011, used as European Assessment Document (EAD).

This version replaces ETA 14/0039 issued on 21/02/2014

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I. SPECIFIC PARTS OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of the product

- 1) Graft FR Acrylic is a sealant used to form linear gap seals where gaps are present in wall and floor constructions and linear joint seals where wall and floor constructions abut.
- 2) The Graft FR Acrylic is supplied in liquid form contained within 310 ml cartridges. The sealant is gunned into the aperture in the separating element/elements and around the service or services, to a specified depth utilising mineral fibre insulation backing material.
- 3) Graft FR Acrylic contains no carcinogenic substances or mutagenic substances, flame retardants or antimicrobiological agents.
- 4) Polyseam AS submitted a written declaration that Graft FR Acrylic does not contain substances which have to be classified as dangerous according to Directive 67/548/EEC and Regulation (EC) No 1272/2008 and listed in the "Indicative list on dangerous substances" of the EGDS - taking into account the installation conditions of the construction product and the release scenarios resulting from there.

In addition to the specific clauses relating to dangerous substances contained in this European technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

5) The use catagory of Graft FR Acrylic in relation to BWR 3 (Hygiene, health and environment) is IA1, S/W3

2 Specification of the intended uses of the product in accordance with the applicable European Assessment Document (Hereinafter EAD): ETAG 026-3

Detailed information and data is given in Annex A.

The intended use of system Graft FR Acrylic is to reinstate the fire resistance performance of gaps in and joints in and between flexible wall and rigid wall constructions, gaps in and joints between rigid floor constructions.

1) The specific elements of construction that the system Graft FR Acrylic may be used to provide a gap or joint seal in, are as follows:

Flexible walls: The wall must have a minimum thickness of 10 mm and comprise steel studs

lined on both faces with minimum 2 layers of 12.5 mm thick boards.

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/m3.

Rigid floors: The floor must have a minimum thickness of 150 mm and comprise aerated

concrete or concrete with a minimum density of 650 kg/m3.

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

- 2) The system Graft FR Acrylic may be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see Annex A).
- 3) The maximum permitted joint/gap width for system Graft FR Acrylic is 100 mm.

- 4) The maximum movement capability of system Graft FR Acrylic is ≤ 7.5%
- The provisions made in this European Technical Assessment are based on an assumed working life of the Graft FR Acrylic of 30 years, provided that the conditions laid down in sections 4.2/5.1/5.2 for the packaging/transport/ storage/installation/use/repair are met. 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.
- Type Z_2 : Intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV.

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

Product-type: Sealant	r Joint & Gap Seal		
Basic requirement for construction work	Essential characteristic	Performance	
	Mechanical resistance and stability		
-	None	Not relevant	
Safety in case of fire			
EN 13501-1	Reaction to fire	Class D-s1, d1	
EN 13501-2	Resistance to fire	Annex A	
	Hygiene, health and environment		
EN 1026:2000	Air permeability (material property)	No performance determined	
ETAG 026-3, Annex C	Water permeability (material property)	No performance determined	
Declaration of manufacturer	Release of dangerous substances	Declaration of manufacturer	
Safety in use			
EOTA TR 001:2003	Mechanical resistance and stability	No performance determined	
EOTA TR 001:2003	Resistance to impact/movement	No performance determined	
EOTA TR 001:2003 ISO 11600	Adhesion	No performance determined	
Protection against noise			
EN 10140-2/ EN ISO 717-1	Airborne sound insulation	Rw(C;Ctr)= 62 (-1;-5) dB*	
EN 10140-3/ EN ISO 717-2	Impact sound insulation	No performance determined	
Energy economy and heat retention			
EN 12664, EN 12667 or EN 12939	Thermal properties	No performance determined	
EN ISO 12572 EN 12086	Water vapour permeability		
General aspects relating to fitness for use			
ISO 8339: 2005, ISO 9046: 2004 & ISO 7389	Durability and serviceability	Z ₂	

^{*} At 12 mm depth

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 – Commission Decision of date 22nd June 1999 on on the procedure for attesting the conformity of construction products pursuant to Article 20(2) of Council Directive 89/106/EEC as regards fire stopping, fire sealing and fire protective products, published in the Official Journal of the European Union (OJEU) L178/52 of 14/07/1999, see http://eur-lex.europa.eu/JOIndex.do) of the European Commission¹, as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) given in the following table(s) applies (apply).

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Fire stopping and Fire Sealing Products	For fire compartmentation and/or fire protection or fire performance	Any	1

5 <u>Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD</u>

Tasks of the manufacturer:

Factory production control

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 European technical Assessment.

The manufacturer may only use initial / raw / constituent materials stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control Plan of 8th April 2013 relating to the European technical assessment ETA 14/0039 issued on 06/02/2015 which is part of the technical documentation of this European technical approval. The "Control Plan" is laid down in the context of the factory production control system operated by the manufacturer and deposited at UL International (UK) Ltd.

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

¹ Official Journal of the European Communities L178/52 of 14/7/1999

Other tasks of the manufacturer

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 or penetration 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 joint or penetration seal
 - Construction of the linear joint seal or penetration seal including the necessary components and additional products (e.g. backfilling material) with clear indication whether they are generic or specific.
 - Services which the penetration seal is suitable, type and properties of the services like material, diameter, thickness etc. in case of pipes including insulation materials; necessary/allowed supports/fixings (e.g. cable trays)
- (b) Installation instruction:
 - Steps to be followed
 - Procedure in case of retrofitting
 - Stipulations on maintenance, repair and replacement

6 Issued on:

6th February 2015

Report by:

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Reviewed by:

C. Johnson Staff Engineer

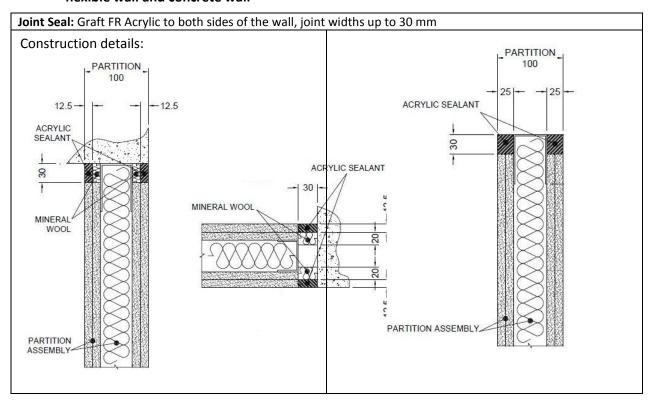
Building and Life Safety Technologies

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For and on behalf of UL International (UK) Ltd.

ANNEX A – Resistance to Fire Classification – Graft FR Acrylic

- A.1 Flexible wall constructions according to 1.2.1 with wall thickness of minimum 100 mm
- A.1.1 Linear joint seals, between head of flexible wall and soffit of concrete floor and vertical end of flexible wall and concrete wall



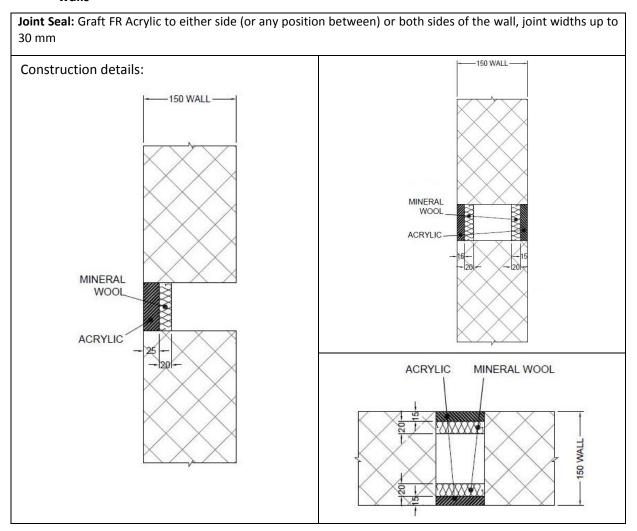
A.1.1.1

Substrate	Depth (mm)	Backing	Classification
Plasterboard /	12.5 min.	12.5 mm Stone wool 35 kg/m³ plus 50 mm steel partition head track	EI 120 – T – X – F – W 00 to 30
concrete		20 mm Stone wool 35 kg/m³ *	EI 120 – V – X – F – W 00 to 30
	25 min.	50 mm steel partition head track	EI 120 – T – X – F – W 00 to 30

^{*} Maximum partition/wall height of 3 metres

A.2 Rigid wall constructions according to 1.2.1 with wall thickness of minimum 150 mm

A.2.1 Linear joint or gap seal, between head of rigid wall and soffit of concrete floor / between rigid walls

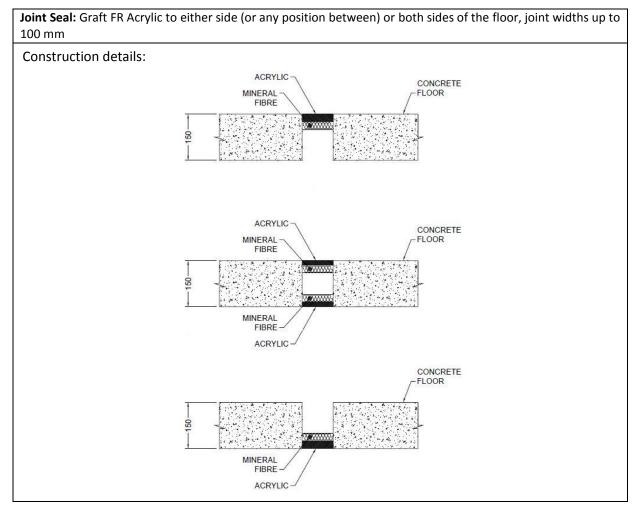


A.2.1.1

Substrate	Depth (mm)	Backing	Classification
	25 min. (one side)	20 mm Stone wool 40 kg/m³	E 240 – T – X – F – W 00 to 30 EI 60 – T – X – F – W 00 to 30
masonry/ concrete	15 min. (both sides)		EI 240 – V – X – F – W 00 to 30 EI 240 – T – X – F – W 00 to 30
	25 min. (one side)	48 mm Graft Mineral Fibre BIO	E 240 – T – X – F – W 00 to 30 EI 120 – T – X – F – W 00 to 30

A.3 Rigid floor constructions according to 1.2.1 with floor thickness of minimum 150 mm

A.3.1 Linear joint or gap seal, between floor slabs or between floor slab and wall with sealant to the top face of the floor only



A.3.1.1

Substrate	Depth (mm)	Backing	Classification
	25 min. (any position)	25 mm Graft Mineral Fibre BIO	E 120 – H – X – F – W 00 to 100 EI 60 – H – X – F – W 00 to 100
masonry/	25 min (top face)		EI 180 – H – X – F – W 00 to 100
concrete	15 min. (both sides)	25 mm Stone wool 40 kg/m ³	EI 120 – H – X – F – W 00 to 100
		25 mm Stone wool 140 kg/m ³	EI 180 – H – X – F – W 00 to 100
	15 min. (both sides)	25 mm stone wool 35 kg/m ³ insulation	EI 240 – T – X – F – W 00 to 30