

Declaration of Performance

No.: **PS-14006 (3)**

1. Unique identification code of the product-type:

Graft FR Acrylic

2. Type, batch or serial no. or any other element allowing identification of the construction product as required pursuant to article 11(4):

EN 13501-2: EI240

EN 1366-3: Penetration seals

EN 1366-4: Linear joint seals

- 2.1 Graft FR Acrylic is supplied in 310ml cartridges, 380ml cartridges and 600ml foils.

- 2.2 In accordance with article 11(4) all products are supplied with product code, date of manufacture and all manufacturing processes traceable through Polyseam's Factory Production controls (FPC) held in the product technical files.

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer, and in accordance with the applicable European Assessment Document (Hereinafter EAD): ETAG 026-2 (penetration seals) and ETAG026-3 (linear joint seals):

- 3.1 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 and to reinstate the fire resistance performance of flexible wall constructions, rigid wall constructions and rigid floor constructions where they are penetrated by various metal pipe services with and without combustible insulation, plastic pipes and electrical cables.

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

Flexible walls: The wall must have a minimum thickness of 100 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 100 mm (unless specified in ETA 14/0037 and 14/0039 Annex A) 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.

3.3 The system Graft FR Acrylic may be used to provide a penetration seal with specific single insulated metal pipes, uninsulated metal pipes, plastic pipes and with specific electrical cables, single or in a bundle and may also be used to provide a linear joint or gap seal with specific supporting constructions and substrates (for details see ETA 14/0037 and 14/0039 Annex A).

The maximum permitted joint/gap width for system Graft FR Acrylic is 100 mm.

The maximum movement capability of system Graft FR Acrylic is $\leq 7.5\%$

Pipes shall be supported at maximum 350 mm away from both faces of the wall constructions and from the upper face of floor constructions.

3.4 The provisions made in this DOP are based on an assumed working life of the Graft FR Acrylic of 10 years, however provided that the conditions laid down in the manufacturers' instructions and datasheet for the packaging/transport/ storage/installation/use/repair are met the assumed working life for Graft FR Acrylic for internal conditions without exposed to UV or moisture is 30 years. 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.

3.5 Type Z2: Intended for uses in internal conditions with humidity lower than 85 % RH excluding temperatures below 0°C, without exposure to rain or UV.

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to article 11(5):

Polyseam Ltd.
Shaw Park
Silver Street
Huddersfield
West Yorkshire
United Kingdom
HD5 9AF

5. Where applicable, name and contact address of the authorized representative whose mandate cover the tasks specified in Article 12(2):

Not applicable

6. System or systems of assessment and verification of consistency of performance of the construction product as set out in annex V:

AVCP-System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

Not applicable

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

This Declaration of Performance has been prepared in accordance with the guidelines set out within ETAG 026 part 1 and 3 (linear joint, gap seals and penetration seals).

ETA 13/0879 and ETA 13/0880 prepared by UL International (UK) Ltd notified body 0843 EC Certificate of conformity 0843-CPD-0139.

9. Declared performance:

Product –type: Intumescent sealant	Intended use: Linear Joint & Gap Seal, Penetration Seal	
Essential characteristics	Performance	Test Standard
Reaction to Fire	D-S1-D1	EN 13501-1
Resistance to Fire	ETA 13/0879 Annex A	EN 13501-2
Air permeability (material property)	NPD	EN 1026:2000
Water permeability	Not water proof	ETAG 026-3 Annex C
Release of dangerous substances	As the manufacture we declare that there is no release of dangerous substances during the installation or use of this product. See safety data sheets.	
Mechanical Resistance and stability	NPD	EOTA TR 001:2003
Resistance to impact/movement	NPD	EOTA TR 001:2003
Airborne sound insulation	Rw = 62dB @ 12mm depth single sided w/o backing	EN 10140-2
Impact sound insulation	NPD	EN 10140-3
Thermal properties	0,0845 W/mK (+/- 3%) @ 20mm depth	EN 12664, EN12667, or EN12939
Water vapor permeability	NPD	EN ISO 12572, EN 12086
Durability and serviceability	Z ₂	ISO 8339:2005, ISO 9046:2004 & ISO 7389
Tensile Properties	Elongation at break ≥100% @23°C	ETAG 026 pt2 B.13.5 ISO 8339:2005
Elastic recovery	7.5% Elongation 50% recovery, M2 Mortar	ETAG 026 pt2 B.13.5 ISO 7389:2003
Adhesion properties	No failure, M2 Mortar	ETAG 026 pt2 B.13.5 ISO 9046:2005

10. The performance of the product identified in points 1 and 2 is in conformity with the performance

in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed on the behalf of the manufacturer by:

Neil Heffernan, Product Certification Manager

(name and function)



London, 22.05.2015
Place and date of issue

Signature