



Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020

UK Technical Assessment	UKTA-0836-22/6234 of 02/11/2022
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	Triflex SmartTec
Product family to which the construction product belongs:	Liquid applied roof waterproofing kits based on polyurethane
Manufacturer:	Triflex (U.K.) Limited Whitebridge Way Stone, Staffordshire ST15 8JS
Manufacturing plant(s):	Triflex GmbH & Co. KG, Karlstraße 59, 32423, Minden, Germany
This UK Technical Assessment contains:	8 pages including 3 annexes which form an integral part of this assessment
This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 on the basis of:	UKAD 030350-00-0402 <i>Liquid applied roof waterproofing kits</i>

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1 Technical description of the product

The liquid applied roof waterproofing Triflex SmartTec is a kit, which consists of:

- primer if required
- liquid applied roof waterproofing based on polyurethane
- polyester fleece layer as reinforcement

For adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer may be required. In general, the primer suitable for the substrate is given in the manufacturers technical documents. In each case, the manufacturer is responsible for giving guidance which pre-treatment/primer is required.

The minimum layer thickness of the roof waterproofing applied is 2.0 mm.

As an assembled system applied on the substrate these components form a homogeneous, seamless roof waterproofing.

The components and the system build-up of the roof waterproofing Triflex SmartTec are given in Annex A1.

2 Specification of the intended use(s) in accordance with the applicable UK Assessment Document (hereinafter UKAD)

The product is used for the waterproofing of roof surfaces against penetration of atmospheric water.

The product is suitable for compressible substrates (e.g. insulation boards) and non-compressible substrates (e.g. steel, concrete).

In the technical file the manufacturer gives information concerning the substrates which the product is suitable for and how these substrates shall be pre-treated/primed.

The levels of use categories are given in Annex A1.

The verifications and assessment methods on which this UK Technical Assessment is based lead to the assumption of a working life of the roof waterproofing of at least 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the manufacturer, 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.

The levels of use categories and performances given in Annex A1 are only valid if the liquid applied roof waterproofing is used in compliance with the conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents.

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

3.1 Mechanical resistance and stability (BWR 1)

Not relevant.

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
External fire performance	See Annex A1 and A2
Reaction to Fire	See Annex A1

3.3 Health, hygiene and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A1
Watertightness	See Annex A1
Content of dangerous substances	No performance assessed
Release scenario	S/W 2
Resistance to plant roots	See Annex A1

3.4 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Resistance to wind loads	See Annex A1
Slipperiness	See Annex A1

3.5 Protection against noise (BWR 5)

Not relevant.

3.6 Energy economy and heat retention (BWR 6)

Not relevant.

3.7 Sustainable use of natural resources (BWR 7)

No Performance assessed.

3.8 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability are only ensured if conditions set in Annex B and the specifications of the technical file of the manufacturer are followed.

4 Assessment and verification of constancy of performance (hereinafter AVCP) system applied

According to UKAD No. 030350-00-0402 and Annex V of the Construction Products Regulation (Regulation (EU) 305/2011 as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 3 applies.

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable UKAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

5.1 UKCA marking for the product/ system must contain the following information:

- Identification number of the Approved Body
- Name/address of the manufacturer of the product/ system
- Marking with intention of clarification of intended use
- Date of marking
- UKTA number.

On behalf of the British Board of Agrément



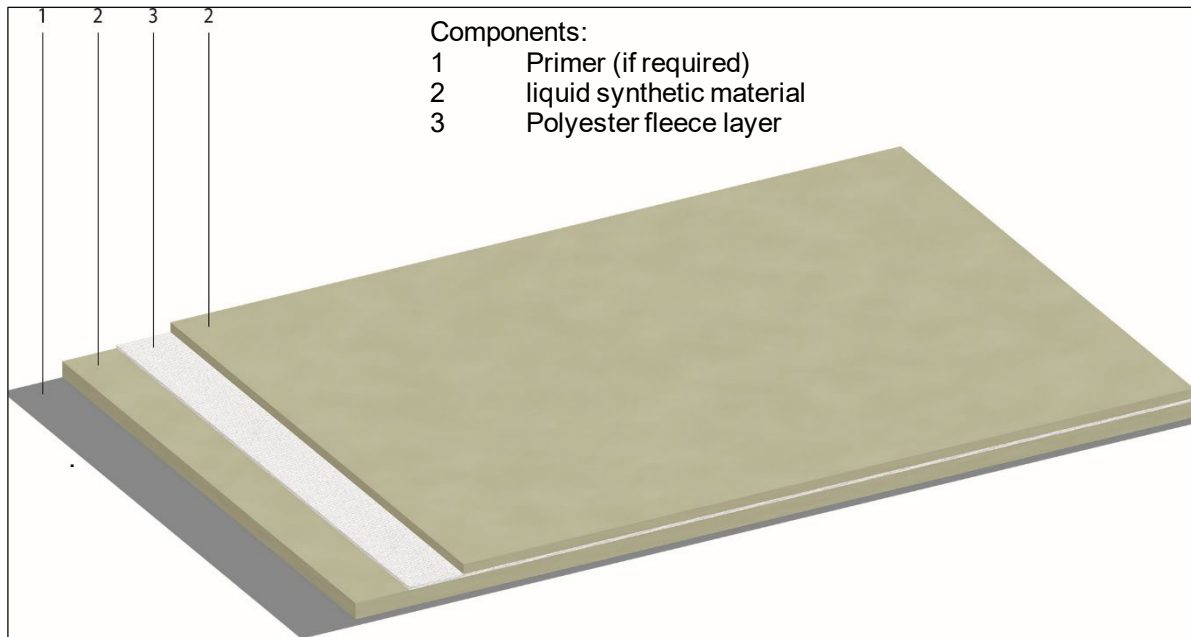
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ANNEX A1
System build-up and classifications



Roof waterproofing Triflex SmartTec:

Minimum layer thickness	2.0 mm	
Minimum quantity consumed:	3.0 kg/m ²	
<u>Levels of use categories according to UKAD No. 030350-00-0402 with relation to:</u>		
Working life:	W3 (25 years)	
Climatic zones	M and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation) (non-compressible substrate, e.g. concrete/steel and compressible substrate, e.g. insulation boards)	P1 to P4 (from low to high)	
Roof slope	S1 to S4 (all slopes)	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH4 (90 °C)	
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	* B _{ROOF} (t1), B _{ROOF} (t2), B _{ROOF} (t3) & B _{ROOF} (t4)
Reaction to fire	EN 13501-1	E
Water vapour diffusion resistance factor μ	μ ≈ 993	
Watertightness	pass	
Statement on dangerous substances	see section 3.3	
Resistance to plant roots	root resistant	
Resistance to wind loads	≥ 50 kPa for tear resistant substrates	
Resistance to slipperiness	no performance assessed	

* The classification is valid for supporting decks see annex A2

ANNEX A2

Supporting decks for reaction to external fire

The classification is valid for the supporting decks:			
Class B _{ROOF} (t1)	Class B _{ROOF} (t2)	Class B _{ROOF} (t3)	Class B _{ROOF} (t4)
For pitches < 20° on - any not combustible decks with a maximum gaps of 5 mm - any continuous wooden decks underlay - insulation (EPS 100 mm) covered with two layers SBS bitumen	All pitches with combustible and non-combustible substrates, e.g. wood deck 18 mm with vapour barrier and Insulation (EPS 50 mm) covered with two layers SBS bitumen	For pitches < 10° on - any wooden continuous deck a minimum thickness of 12 mm - any deck made of wooden planks with plain edges - any non-combustible deck with gap not exceeding 5 mm	For pitches < 10° by roof consisting of - plywood deck (18 mm) - vapour control layer - PIR-insulation (120 mm)

Any other roof systems for which classification documents for B_{ROOF} (tX) according EN 13501-5 are available

ANNEX B

Installation

The levels of use categories and the performances of the roof waterproofing can be assumed only if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel,
- installation of only those components which are marked components of the kit,
- installation with the required tools and adjuvants,
- precautions during installation,
- inspecting the roof surface for cleanliness and correct preparation, if need be, applying a primer before applying the product,
- inspecting compliance with suitable weather and curing conditions,
- ensuring a thickness of the waterproofing of at least 2.0 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.



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