



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-17/0284 of 11 July 2022

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Triflex SmartTec
Product family to which the construction product belongs	Liquid applied roof waterproofing based on polyurethane
Manufacturer	Triflex GmbH & Co. KG Karlstraße 59 32423 Minden DEUTSCHLAND
Manufacturing plant	Triflex GmbH & Co. KG Karlstraße 59 32423 Minden
This European Technical Assessment contains	8 pages including 2 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 030350-00-0402
This version replaces	ETA-17/0284 issued on 20 April 2022



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Specific part

1 Technical description of the product

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

- primer "Triflex Metall Primer" if required
- liquid applied roof waterproofing "Triflex SmartTec" on the basis of a one-component polyurethane
- polyester fleece as reinforcement

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer is required. In general, the primer belonging to the substrate is given in the manufacturer technical documents¹. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

The liquid applied roof waterproofing materials can be applied by pouring and/or brushing.

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

As an assembled system these components form a homogeneous seamless roof waterproofing.

The liquid applied roof waterproofing "Triflex SmartTec" does not contain any substances that are intended to inhibit or prevent root penetration (root protection agents).

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

2 Specification of the intended use in accordance with the applicable European Assessment Document

The liquid applied roof waterproofing is used for the waterproofing of roof surfaces, terraces and balconies.

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

The product can be used for new roofs or for upgrading existing roof waterproofing. It can also be used on vertical surfaces (singular details).

The categorisation according to use is given in Annex A.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of working life of the product of 25 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.

The levels of use categories and performances given in Section 3 are only valid if the liquid applied roof waterproofing is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents.

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The manufacturer's technical documents comprise all information necessary for the production and the installation of the product as well as for repair of the roof waterproofing made from that and it is deposited with DIBt.



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

3.1 Basic Works Requirement 2: Safety in case of fire

Essential characteristic	Performance
External fire performance	see Annex A1/A2
Reaction to fire	see Annex A1

3.2 Basic Works Requirement 3: Hygiene, health and the environment

Content, emission and/or release of dangerous	substances	
Release scenario	S/W2	
Substance/s classified as EU-cat. Carc. 1A and/or 1B ^{a)}	no performance assessed	
Substance/s classified as EU-cat. Muta. 1A and/or 1B ^{a)}		
Substance/s classified as EU-cat. Repr. 1A and/or 1B ^{a)}		
Essential characteristic	Performance	
Water vapour permeability	see annex A1	
Watertightness	see annex A1	
Resistance to wind loads	see annex A1	
Resistance to mechanical damage (perforation)	see annex A1, levels of use categories	
Resistance to fatigue movement	see annex A1	
Resistance to the effects of low and high surface temperature	see annex A1	
Resistance to ageing media (heat and water)	see annex A1	
Resistance to UV radiation in the presence of moisture	see annex A1	
Resistance to plant roots	see annex A1	
Effects of variations in kit components and site practices	see annex A1	
Effects of day joints	see annex A1	
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^{a)} In accordance with Regulation (EC) No 1272/2008

^{b)} Assessment based on the detailed manufacturer's statements

3.3 Basic Works Requirement 4: Safety and accessibility in use

Essential characteristic	Performance
Slipperiness	see annex A1

3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability are only ensured if the specifications of intended use according to Annex B and the specifications of the technical file of the manufacturer are kept.



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Assessment and verification of constancy of performance (AVCP) system applied, with

In accordance with EAD 030350-00-0402 the applicable European legal act is: 98/599/EC and amended by Commission Decision 2001/596/EC.

The system to be applied is: 3

reference to its legal base

With regard to external fire exposure and reaction to fire for products covered by this EAD, the system to be applied is: 3

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 11 July 2022 by Deutsches Institut für Bautechnik

Bettina Hemme Head of Section *beglaubigt:* Gnamou

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Description of the product 2.0 mm Minimum layer thickness 2.0 mm minimum quantity consumed: 3.0 kg/m² Roof slope S1 to S4 (each slope) Performance of the product: Description / Class / Level External fire performance EN 13501-5 * Broor (t1), Broor (t2), Broor (t3) & Broor (t4) Reaction to fire EN 13501-1 E Content, emission and/or release of dangerous substances see section 3.2 resistance to water vapour (Water vapour diffusion resistance factor) µ ≈ 993 Watertightness watertight Resistance to wind loads ≥ 50 kPa for tear resistant substrates Resistance to fatigue movement W3 Resistance to the effects of low surface temperature (from low to high) Resistance to UV radiation in the presence of moisture M and S (moderate and severe climatic) (climatic zones) Resistance to low attrace tergeth(N/mm²) Itransversal: 85.4 Effects of variations in kit components and site practices Maximum tensile strength(N/mm²) Itransversal: 85.4 Effects of day joints at 35 °C Maximum tensile longitudinal: 77.5 transversal: 79.4 <td< th=""><th></th><th></th><th></th><th>2 liquid synthetic m</th><th>etall Primer" (if required) naterial "Triflex SmartTec" with a nominal weight of</th></td<>				2 liquid synthetic m	etall Primer" (if required) naterial "Triflex SmartTec" with a nominal weight of
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		is valid for	supporting decks see annex A2	· · · ·	
Triflex SmartTec Triflex GmbH & Co. KG		٢G			
System built-up, categorisation of use and classifications Annex A1	System built-up, ca	tegorisatio	on of use and classifications		Annex A1

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Class BROOF (t1)	Class BROOF (t2)	Class BROOF (t3)	Class BROOF (t4)
 For pitches < 20° on any not combustible decks with a maximum gap 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 contro layer PIR-insulation (120 mm)

Any other roof systems for which classification documents for BROOF (tX) according EN 13501-5 are available

Triflex SmartTec Triflex GmbH & Co. KG

Reaction to external fire

Annex A2

English translation prepared by DIBt



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 surface for cleanliness and correct preparation, if need be, applying a primer before applying the product
- inspecting compliance with suitable weather and curing conditions
- finding out whether to the given ambient temperature the application with the adjustment for summer or winter is to be accomplished
- 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

Triflex SmartTec Triflex GmbH & Co. KG

Intended use Specifications Annex B