



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

UK Technical Assessment	UKTA-0836-22/6379 of 22/09/2022
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	ENKOLAN Abdichtung 1K LF
Product family to which the construction product belongs:	Area Code 3, Membranes, including Liquid applied and kits (for water and/or water vapour control)
Manufacturer:	ENKE-WERK Johannes Enke GmbH & Co. KG Hamburger Straße 16 D-40221 Düsseldorf Germany
Manufacturing plant(s):	Enke-Werk, Johannes Enke GmbH & Co. KG Hamburger Straße 16 D-40221 Düsseldorf Germany
This UK Technical Assessment contains:	7 pages including 2 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 Enkolan Abdichtung 1K LF is a kit, which consists of the components:

- Primer (if required but not part of these ETA)
- liquid applied roof waterproofing on the basis of a 1-component polyurethane Enkolan Abdichtung 1K LF
- Polyester fleece as reinforcement

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

A polyester fleece with a nominal mass per unit weight  $110 \text{ g}\cdot\text{m}^{-2}$  is used as a reinforcement layer between the waterproofing layers.

Primers are required for certain substrates to ensure adequate adhesion of the waterproofing layer. The advice of the manufacturer must be followed regarding suitable primers and guidance where any pre-treatment is required.

The components and the system build-up of the roof waterproofing Enkolan Abdichtung 1K LF are given in Annex A.

Kits based on this UKTA cover all components of the assembled system within a set generic specification in accordance to the UKTA Holder.

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

The kit is for use as a liquid-applied roof waterproofing to resist the passage of water to the building's internal structure.

The provisions made in this UK Technical Assessment are based on an assumed working life for the roof of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, 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 are given in Annex A. 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 A 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)**

<b>Essential characteristic</b>	<b>Performance</b>
External fire performance	See Annex A
Reaction to fire	See Annex A

### 3.3 Health, hygiene and the environment (BWR 3)

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
<b>Content of dangerous substances</b>	
Substance/s classified as EU-cat. Carc. 1A and/or 1B <sup>(a)</sup>	The kit does not contain these dangerous substances. <sup>(b)</sup>
Substance/s classified as EU-cat. Muta. 1A and/or 1B <sup>(a)</sup>	
Substance/s classified as EU-cat. Repr. 1A and/or 1B <sup>(a)</sup>	
Release scenario regarding BWR 3: S/W 2	
Resistance to mechanical damage (perforation)	See Annex A, Levels of use categories
Resistance to plant roots	See Annex A

(a) In accordance with Regulation (EC) No 1272/2008

(b) Assessment based on the detailed manufacturer's statements

### 3.4 Safety and accessibility in use (BWR 4)

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

### 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.

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

### 4.1 System of assessment and verification of constancy of performance

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
- Number of certificate of constancy of performance
- UKTA number.

On behalf of the British Board of Agrément



Date of Issue: 22 September 2022

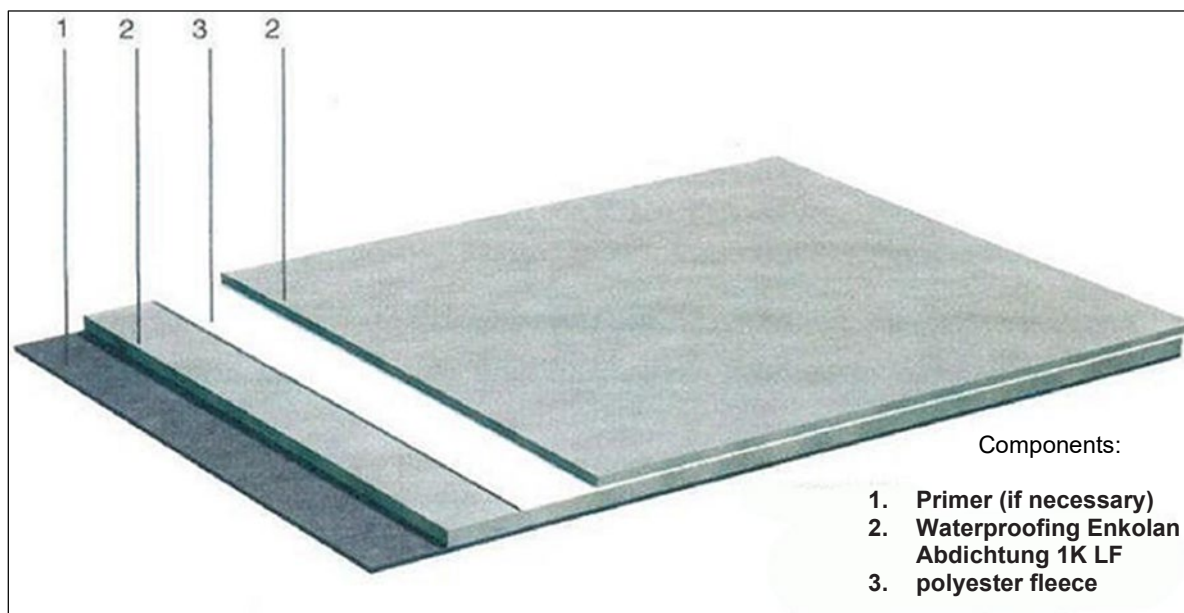
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## ANNEXES

This annex applies to the product described in the main body of the UK Technical Assessment.



Applicable to the roof waterproofing Enkolan Abdichtung 1K LF

Minimum layer thickness	2.3 mm	
minimum quantity consumed:	3.0 kg·m <sup>-2</sup>	
<u>Levels of use categories according to ETAG 005 with relation to:</u>		
Working life:	W3 (25 years)	
Climatic zones	M and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation)	Compressible substrates and non-compressible substrates	
	P1 to P4 (from low to high)	
Roof slope	S1 to S4 (each roof pitch)	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH4 (90 °C)	
Use category related to BWR 3:	S/W 2	
<u>Performance of the product:</u>		
External fire performance	EN 13501-5	B <sub>Roof</sub> (t <sub>1</sub> )*
Reaction to fire	EN 13501-1	E
Water vapour diffusion resistance factor μ		μ ≈ 3200
Watertightness		pass
Statement on dangerous substances		see section 3.3
Resistance to plant roots		resistant
Resistance to wind loads		≥ 50 kPa
Resistance to slipperiness		no performance assessed

\* Class B<sub>ROOF</sub> (t<sub>1</sub>)

The classification is valid for the following supporting decks:

- all slope
- any wooden continuous deck with a minimum thickness of 16 mm and gaps not exceeding 5 mm
- wooden continuous deck with insulation (EPS, ≥ 50 mm) covered with bitumen sheets with a mass per unit of 60 g·m<sup>-2</sup>
- Any other roof systems for which classification documents for B<sub>ROOF</sub> (t<sub>1</sub>) according EN 13501-5 are available.

**Enkolan Abdichtung 1K LF**  
ENKE-WERK

**System built-up, levels of use categories and performances of the product**

Annex A

## 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, taking into 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 cured waterproofing of at least 2.3 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

**Enkolan Abdichtung 1K LF**  
FNKF-WERK

**Intended use**  
Specifications

Annex B



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