

Approval body for construction products  
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and  
Laender Governments



## European Technical Assessment

**ETA-20/0781**  
**of 1 December 2020**

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

"Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-  
Abdichtung"

Product family  
to which the construction product belongs

Liquid applied roof waterproofing on the basis of  
polyurethane

Manufacturer

Kemmler Baustoffe GmbH  
Reutlinger Straße 63  
72072 Tübingen  
DEUTSCHLAND

Manufacturing plant

Produktionsanlage 720

This European Technical Assessment  
contains

7 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

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## Specific Part

### 1 Technical description of the product

The liquid applied roof waterproofing "Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-Abdichtung" is a kit, which consists of the components:

- primer "KEMMLER 2K EP-Grundierung" / "KEMMLER EP-Grundierung" gritted with quartz sand for mineral substrates
- liquid applied roof waterproofing on the basis of a polyurethane
- polyester fleece layer 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 documents<sup>1</sup>. 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 "Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-Abdichtung" 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 "Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-Abdichtung" are given in Annex A.

### 2 Spezifizierung des Verwendungszwecks gemäß dem anwendbaren Europäischen Bewertungsdokument

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

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

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.

<sup>1</sup> 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.

### 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 A
Reaction to fire	see Annex A

#### 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 <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>	
Essential characteristic	Performance
Water vapour permeability	see annex A
Watertightness	see annex A
Resistance to wind loads	see annex A
Resistance to mechanical damage (perforation)	see annex A, levels of use categories
Resistance to fatigue movement	see annex A
Resistance to the effects of low and high surface temperature	see annex A
Resistance to ageing media (heat and water)	see annex A
Resistance to UV radiation in the presence of moisture	see annex A
Resistance to plant roots	see annex A
Effects of variations in kit components and site practices	see annex A
Effects of day joints	see annex A

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

<sup>b)</sup> 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 A

#### 3.4 Allgemeine Aspekte

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.

English translation prepared by DIBt

**4 Angewandtes System zur Bewertung und Überprüfung der Leistungsbeständigkeit mit der Angabe der Rechtsgrundlage**

In accordance with EAD 17-03-0350-04.02 the applicable European legal act is: 98/599/EC and amended by Commission Decision 2001/596/EC.

The system to be applied is: 3

In addition, with regard to reaction to fire for products covered by this ETAG the applicable European legal act is: 2001/596/EC

The system to be applied is: 3

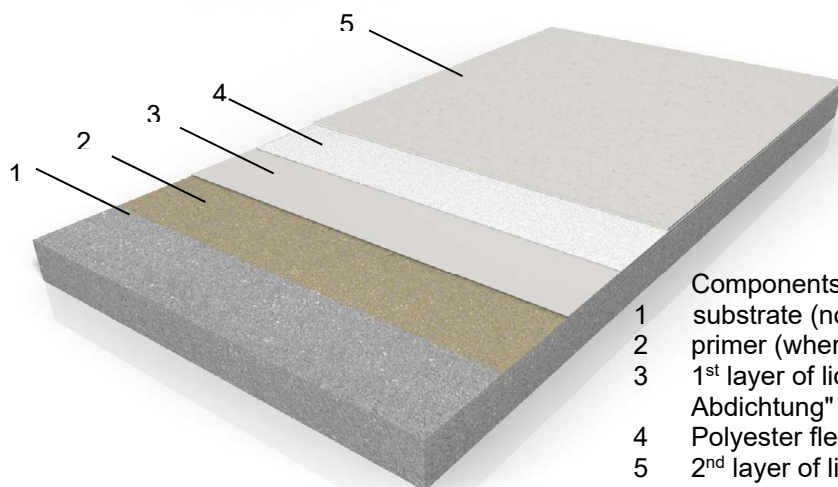
**5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD**

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 1 December 2020 by Deutsches Institut für Bautechnik

Dipl.-Ing. Bettina Hemme  
Head of Section

*beglaubigt:*  
Gnamou



**Components**

- 1 substrate (not part of the kit)
- 2 primer (where required)
- 3 1<sup>st</sup> layer of liquid synthetic material "Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-Abdichtung"
- 4 Polyester fleece layer with at least a weight of 155g/m<sup>2</sup>
- 5 2<sup>nd</sup> layer of liquid synthetic material "Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-Abdichtung"

Description of the product			
Minimum layer thickness		2.0 mm	
minimum quantity consumed:		3.0 kg/m <sup>2</sup>	
Roof slope		S1 to S4 (each slope)	
<b>Performance of the product:</b>		<b>Description / Class / Level</b>	
External fire performance	EN 13501-5	B <sub>ROOF</sub> (t <sub>1</sub> )*	
Reaction to fire	EN 13501-1	class E	
Statement on dangerous substances		see section 3.2	
Water vapour diffusion resistance factor $\mu$		$\mu \approx 2100$	
Watertightness		watertight	
Resistance to wind loads		$\geq 50$ kPa for tear resistant substrates	
Resistance to mechanical damage (perforation) (compressible and non-compressible substrates)		P1 to P4 (from low to high)	
Resistance to fatigue movement		W3	
Resistance to the effects of	low surface temperature	TL4 (-30 °C)	
	high surface temperature	TH4 (90 °C)	
Working life according to the resistance to ageing media (heat and water)		W3 (25 years)	
UV resistance in presence of moisture (climatic zones)		M and S (moderate and severe climatic)	
Resistance to plant roots		Root resistant	
Effects of variations in kit components and site practices	at 8 °C	Maximum tensile strength	8,1 MPa
		Elongation	32 %
		Dynamic identification	P4
	at 40 °C	Maximum tensile strength	7,6 MPa
		Elongation	35 %
		Dynamic identification	P4
Effects of day joints		> 20 kPa	
Resistance to slipperiness		no performance assessed	

\* For the classification of the external fire performance according EN 13501-5 see Annex B.

"Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-Abdichtung" Kemmler Baustoffe GmbH	Annex A
<b>System built-up, categorisation of use and classifications</b>	

**Classification of the external fire performance according EN 13501-5  
for the following supporting decks for the roof waterproofing  
"KEMMLER 1K-SF"**

**Class B<sub>ROOF</sub> (t1)**

The classification is valid für the following supporting decks:

- All roof pitches
- any non-combustible continuous deck d = 10 mm, with gaps not exceeding 5 mm
- wooden continuous deck with insulation (EPS, 100 mm) covered with bitumen sheets with a mass per unit of 5.5 kg/m<sup>2</sup>

Any other roof systems for which classification documents for B<sub>ROOF</sub> (t1) according to EN 13501-5 are available.

**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

**"Kemmler SF14 1K-Abdichtung" / "Kemmler SF65 1K-Abdichtung"**

Kemmler Baustoffe GmbH

**Reaction to external fire and  
Intended use, specifications**

Annex B