



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-03/0025 of 26 April 2017

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of

Deutsches Institut für Bautechnik

Roof waterproofing "KEMPEROL V 210" Roof waterproofing "TRIXSEL V 210"

Liquid applied waterproofing on the basis of flexible unsaturated polyester

KEMPER SYSTEM GmbH & Co. KG Holländische Str. 32-36 34246 Vellmar DEUTSCHLAND

KEMPER SYSTEM GmbH & Co. KG Holländische Str. 32-36 34246 Vellmar

7 pages including 2 annexes which form an integral part of this assessment

Guideline for European technical approval of "Liquid applied roof waterproofing kits", ETAG 005 Part 4: "Specific stipulations for kits based on flexible unsaturated polyester", used as European Assessment Document (EAD) according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011.

Deutsches Institut für Bautechnik Kolonnenstraße 30 B | 10829 Berlin | GERMANY | Phone: +49 30 78730-0 | Fax: +49 30 78730-320 | Email: dibt@dibt.de | www.dibt.de



European Technical Assessment ETA-03/0025

Page 2 of 7 | 26 April 2017

English translation prepared by DIBt

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Page 3 of 7 | 26 April 2017

European Technical Assessment ETA-03/0025 English translation prepared by DIBt

Specific part

1 Technical description of the product

The liquid applied roof waterproofings "KEMPEROL V 210"/"TRIXSEL V 210" are kits, which consist of the components:

- liquid applied roof waterproofing on the basis of a flexible unsaturated polyester
- polyester fleece layer as reinforcement

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer is required.

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. Annex A shows the components and the system build-up of the roof waterproofings "KEMPEROL V 210"/"TRIXSEL V 210".

2 Specification of the intended use in accordance with the applicable EAD

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

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

The levels of use categories are 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.

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

3.1 Mechanical resistance and stability (BWR 1)

Not applicable

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
External fire performance	See Annex A
Reaction to fire	See Annex A



European Technical Assessment

ETA-03/0025

Page 4 of 7 | 26 April 2017

English translation prepared by DIBt

3.3 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance	
Water vapour permeability	See Annex A	
Watertightness	See Annex A	
Release of dangerous substances	npa	
Resistance to mechanical damage (perforation)	See Annex A, Levels of use categories	
Resistance to plant roofs	See Annex A	

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 applicable

3.6 Energy economy and heat retention (BWR 6) Not applicable

3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

3.8 General aspects

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



European Technical Assessment ETA-03/0025

Page 5 of 7 | 26 April 2017

English translation prepared by DIBt

4 Assessment and verification of constancy of performance (AVCP) system applied with reference to its legal base

According to Decision of the Commission of 12 October 1998 (98/599/EC) (OJ L 287 of 24.10.98, p. 30), as amended by Decision of the Commission of 8 January 2001 (2001/596/EC) (OJ L 209 of 02.08.2001, p. 33), the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use(s)	Level or class	System
	For uses subject to external fire performance regulations	B _{ROOF} (t1)	3
Liquid applied roof waterproofing kits	For uses subject to reaction to fire	E	3
	All other roof waterproofing uses (all other characteristics)	_	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 26 April 2017 by Deutsches Institut für Bautechnik

Andreas Kummerow p. p. Head of Department *beglaubigt:* Gnamou

Page 6 of European Technical Assessment ETA-03/0025 of 26 April 2017

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4 2 3 2 1	K	
3 Polyester f	hetic material leece layer with a nominal weight of	
min. 155 g		
4 i opping (o	ptional: decorative finish)	
Applicable to the roof waterproofing "KEMPEROL V 210" and "T	RIXEL V 210":	
Minimum layer thickness	2.0 mm	
minimum quantity consumed:	2.8 kg/m ²	
Levels of use categories according to ETAG 005 with relation to	<u></u>	
Working life:	W3 (25 years)	
Climatic zones	M and S (moderate and severe climatic)	
Resistance to mechanical damage (perforation) (compressible	P1 to P4	
and non-compressible substrates)	(from low to high)	
Roof slope	S1 to S4 (from < 5° to > 30°)	
Lowest surface temperature	TL4 (-30 °C)	
Highest surface temperature	TH4 (90 °C)	
Use category related to BWR 3:	S/W 2	
Performance of the product:		
External fire performance EN 13501-5	Broof (t1)*	
Reaction to fire EN 13501-1	E	
Water vapour diffusion resistance factor µ	μ ≈ 10960	
Watertightness	pass	
Statement on dangerous substances	see section 3.3	
Resistance to plant roots	npa	
Resistance to wind loads	≥ 50 kPa	
Resistance to slipperiness	npa	
 * Class B_{ROOF} (t1) The classification is valid für the following supporting decks: all roof pitches any wooden continuous deck with a minimum thickness of 16 mm and with g any non-combustible continuous deck with a minimum thickness of 10 mm roof pitches < 20° any wooden continuous deck any non-combustible continuous deck with gaps not exceeding 5 mm any bitumen sheeting with a minimum mass per unit area of 3.300 g/m² Any other roof systems for which classification documents for BROOF (t1) accord 		
oof waterproofing "KEMPEROL V 210" oof waterproofing "TRIXSEL V 210"		
ystem built up and classification	Annex A	

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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,
- 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.

Roof waterproofing "KEMPEROL V 210" Roof waterproofing "TRIXSEL V 210"

Intended use

Specifications

Annex B