



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-22/0289 of 22 April 2022

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

blaugelb FLK Liquid

Liquid applied roof waterproofing based on polyurethane

Meesenburg Großhandel KG Westerallee 162 24941 Flensburg DEUTSCHLAND

8 pages including 3 annexes which form an integral part of this assessment

EAD 030350-00-0402



European Technical Assessment ETA-22/0289

Page 2 of 8 | 22 April 2022

English translation prepared by DIBt

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European Technical Assessment ETA-22/0289 English translation prepared by DIBt

Page 3 of 8 | 22 April 2022

Specific part

1 Technical description of the product

The liquid applied roof waterproofing "blaugelb FLK Liquid" is a kit, which consists of the components:

- primer "blaugelb FLK Primer Metall" if required
- liquid applied roof waterproofing "blaugelb FLK Liquid" 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 "blaugelb FLK Liquid" 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 "blaugelb FLK Liquid" 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.

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.



European Technical Assessment ETA-22/0289

Page 4 of 8 | 22 April 2022

English translation prepared by 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 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)}		
Substance/s classified as EU-cat. Muta. 1A and/or 1B ^{a)}	no performance assessed	
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	

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

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.

b) Assessment based on the detailed manufacturer's statements





European Technical Assessment ETA-22/0289

Page 5 of 8 | 22 April 2022

English translation prepared by DIBt

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

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

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.

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Page 6 of European Technical Assessment ETA-22/0289 of 22 April 2022

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Primer "blaugelb FLK Primer Metall" (if required)

2 liquid synthetic material "blaugelb FLK Liquid"

3 Polyester fleece with a nominal weight of 110 g/m²

Description of the	e product			
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 perfor	rmance	EN 13501-5	* Broof (t1), Broof (t2), Broof (t3) & Broof (t4	
Reaction to fire		EN 13501-1	E	
Content, emission	and/or rele	ase 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 mechanical damage (perforation) (non-		P1 to P4		
compressible substrates)		(from low to high)		
Resistance to fatio	Resistance to fatigue movement		W3	
Resistance to the	effects of	low surface temperature	TL4 (-30 °C) TH4 (90 °C)	
		high surface temperature		
Working life according to the resistance to ageing media (heat and water)		W3 (25	years)	
Resistance to UV (climatic zones)	stance to UV radiation in the presence of moisture atic zones)		M and S (moderate	and severe climatic)
resistance to plant roots		Roots resistant		
Effects of variations in kit	at 8 °C	Maximum tensile strength(N/mm²)	longitudinal: 77.5	transversal: 85.4
components and		Elongation (%)	longitudinal: 50.5	transversal: 60.8
site practices		Dynamic indentation	Р	4
	at 35 °C	Maximum tensile	longitudinal: 73.8	transversal: 79.4
		strength(N/mm²)		
		Elongation (%)	longitudinal: 46.7	transversal: 59.9
		Dynamic indentation	Р	4
Effects of day joints		> 20 kPa		
Slipperiness		no performance assessed		

^{*} The classification is valid for supporting decks see annex A2.

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System built-up, categorisation of use and classifications	Annex A1



Class B _{ROOF} (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	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

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Reaction to external fire	Annex A2

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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 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

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Intended use Specifications	Annex B	

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