



Approval body for construction products and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and Laender Governments



European Technical Assessment

ETA-20/0780 of 12 July 2021

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

DRACO GARD 500

Liquid applied roof waterproofing on the basis of polyurethane

DRACO D.O.O. Draskoviceva 4 2121 SOLIN KROATIEN

Produktionsanlage 2121

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

EAD 030350-00-0402



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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "DRACO GARD 500" is a kit, which consists of the components:

- Primer "DRACO PRIMO 850" (if required),
- liquid applied roof waterproofing on the basis of a one-component reactive polyurethane,
- polyester fleece "DRACO BAND 210" 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. Depending on the levels the minimum layer thickness of the roof waterproofing applied is 1.6 mm respectively 2.9 mm.

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

The liquid applied roof waterproofing "DRACO GARD 500" 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 "DRACO GARD 500" are given in Annex A.

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

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.

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 10 respectively 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.



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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 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 ^{a)}	The kit does not contain these dangerous substances. ^{b)}			
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 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			

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 A	

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





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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

In addition, with regard to 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

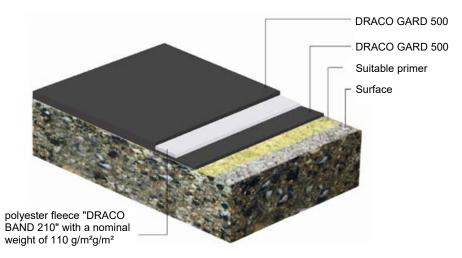
Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 12 July 2021 by Deutsches Institut für Bautechnik

Bettina Hemme beglaubigt:
Head of Section Gnamou

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Description of the	product			
Minimum layer thickness			1.6 mm	2.9 mm
minimum quantity consumed:			2.4 kg/m²	4.1 kg/m²
Roof slope			S1 to S4 (from < 5° to > 30°)	
Performance of the product:			Description / Class / Level	
External fire performance		EN 13501-5	Froof	
		EN 13501-1	E	
Statement on dangerous substances			see section 3.2	
Water vapour diffusion resistance factor µ			μ≈ 1830	
Watertightness			watertight	
Resistance to wind loads			≥ 50 kPa	
Resistance to mechanical dam		nage (perforation)	P1 to P3	P1 to P4
(compressible and	non-compr	essible substrates)	(from low to normal)	(from low to high)
Resistance to fatigue movement			W2	W3
Resistance to the effects of		low surface temperature	TL3 (-20 °C)	TL4 (-30 °C)
		high surface temperature	TH4 (90 °C)	
Working life according to the resistance to ageing media			W2 (10 years)	W3 (25 years)
	(heat and water)			
UV resistance in presence of moisture (climatic zones)		M and S (moderate and severe climatic)		
Resistance to plant roots		no performance assessed		
Effects of	at 8 °C	Maximum tensile strength	9,7 MPa 27,7 %	
variations in kit		Elongation		
components and		Dynamic identitation	P3	P4
site practices	at 40 °C	Maximum tensile strength	,	MPa
		Elongation		9 %
		Dynamic identitation	P3	P4
Effects of day joints		≥ 300 kPa		
Resistance to slipperiness		no performance assessed		

DRACO GARD 500 DRACO D.O.O.	Ambana A
System built-up, levels of use categories and performances of the product	Anhang A

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Installation 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 cured waterproofing of at least 1.6 mm respectively 2.9 mm by processing appropriate minimum quantities of material
- inspections during installation and of the finished product and documentation of the results

DRACO GARD 500DRACO GARD 500 DRACO D.O.O.	
Intended use Specifications	Annex B

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