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European Technical Assessment Body
for construction products



European Technical Assessment

ETA-24/0136
of 11 March 2024

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General Part

Technical Assessment Body issuing the European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

AQUATA SEAL 300 PU

Product family to which the construction product belongs

Liquid applied roof waterproofing on the basis of polyurethane

Manufacturer

NORDIA S.A.
364 Kifissias Ave. & Delfon str.
15233 CHALANDRI (ATHENS)
GRIECHENLAND

Manufacturing plant

Manufacturing plant 33

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 "AQUATA SEAL 300 PU" is a kit, which consists of the components:

- liquid applied roof waterproofing on the basis of a polyurethane,
- optional with a polyester nonwoven 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 pre-treatment/primer is required.

The liquid applied roof waterproofing materials can be applied by pouring and/or brushing.

The minimum layer thickness of the waterproofing applied is 1.2 mm without nonwoven or 1.8 mm with a polyester nonwoven of 120 g/m² nominal weight.

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

The liquid applied roof waterproofing "AQUATA SEAL 300 PU" 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 "AQUATA SEAL 300 PU" 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.

The product is suitable for non-compressible substrates (e.g., concrete).

The product can be used for new roofs or for upgrading existing roof waterproofing. It can also be used for the waterproofing of details on vertical surfaces.

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 10 years or 25 years (see Annex A). 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.

¹ 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 Safety in case of fire (BWR 2)

Essential characteristic	Performance
External fire performance of roofs	see Annex A
Reaction to fire	see Annex A

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or release of dangerous substances	
Release scenario	S/W 2
Substance/s classified as EU-cat. Carc. 1A and/or 1B ^{a)}	no performance assessed
Substance/s classified as EU-cat. Muta. 1A and/or 1B ^{a)}	
Substance/s classified as EU-cat. Repr. 1A and/or 1B ^{a)}	
Resistance to water vapour	see annex A
Watertightness	see annex A
Resistance to wind loads	see annex A
Resistance to mechanical damage (perforation)	see annex A
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 (climate zones)	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 Safety and accessibility in use (BWR 4)

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.

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 as amended by Commission Decision 2001/596/EC.

The system to be applied is: 3

With regard to external fire performance of roofs and reaction to fire, the system to be applied is: 3

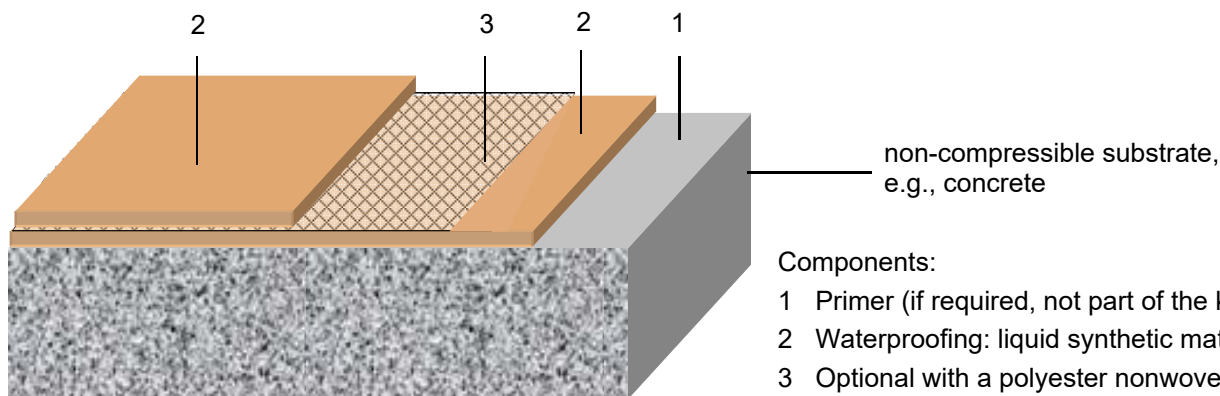
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 11 March 2024 by Deutsches Institut für Bautechnik

Jürgen Banzer
Head of Section (acting)

beglaubigt:
Hannoun



Applicable to the roof waterproofing "AQUATA SEAL 300 PU"

Description of the product		without nonwoven	with polyester nonwoven	
		Minimum layer thickness	1.2 mm	1.8 mm
Minimum quantity consumed	1.9 kg/m ²	2.5 kg/m ²		
Roof slope	S1 to S4 (each slope)			
Essential characteristic	Performance			
External fire performance of roofs	EN 13501-5	F _{ROOF}		
Reaction to fire	EN 13501-1	Class E		
Content, emission and/or release of dangerous substances	no performance assessed			
Resistance to water vapour (Water vapour diffusion resistance factor)	$\mu \approx 1900$	$\mu \approx 1600$		
Watertightness	watertight			
Resistance to wind loads	≥ 50 kPa			
Resistance to mechanical damage (perforation) (non-compressible substrates)	P1 (low)	P1 to P4 (from low to high)		
Resistance to fatigue movement	W3	W2		
Resistance to the effects of	low surface temperature	TL4 (-30 °C)		
	high surface temperature	TH3 (+80°C)	TH4 (+90 °C)	
Working life according to the resistance to ageing media	W3 (25 years)	W2 (10 years)		
Resistance to UV radiation in the presence of moisture (climatic zones)	M and S (moderate and severe climatic)			
Resistance to plant roots	no performance assessed			
Effects of variations in kit components and site practices	at +3 °C	Maximum tensile strength	3.31 MPa	5.75 MPa
		Elongation	289 %	25.3 %
		Dynamic indentation	P4	
	at +40 °C	Maximum tensile strength	3.1 MPa	6.72 MPa
		Elongation	226 %	32.5 %
		Dynamic indentation	P4	
Effects of day joints	1.33 MPa	1.5 MPa		
Slipperiness	no performance assessed			

AQUATA SEAL 300 PU
NORDIA S.A.

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 documents 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;
- ensuring a thickness of the cured waterproofing of at least 1.2 mm (without nonwoven) or 1.8 mm (with a polyester nonwoven with a nominal weight of 120 g/m²) 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 for the installation

Annex B