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European Technical Assessment

ETA 17/ 0401
of 11/ 03/ 2026

General Part

Technical Assessment Body issuing the European Technical Assessment:
Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc)

Trade name of the construction product	DANOCOAT
Product family to which the construction product belongs	Liquid Applied Roof Waterproofing Kit, based on Pure Polyurea
Manufacturer	DANOSA GROUP c/ La Granja n.º 3. 28108 ALCOBENDAS MADRID, Spain.
Manufacturing plant(s)	c/ La Granja n.º 3. 28108 ALCOBENDAS MADRID, Spain..
This European Technical Assessment contains	5 pages. + Annex 1 Contain confidential information and is not included in the ETA when that assessment is publicly available.
This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of	EAD 030350-00-0402 Liquid applied roof waterproofing kits
This ETA replace to	ETA 17/0401 (v3) issued on 05/02/2024

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Specific parts

1 Technical description of the product

The Liquid Applied Roof Waterproofing Kit (LARWK) "DANOCOAT" is designed and installed in accordance with the manufacturer, design and installation instructions, deposited at the IETcc. This LARWK comprises the following components, which are factory produced by the manufacturer.

Components	Trade name	Consumption
Primer (concrete)	DANOPRIMER EP (epoxi)	≥ 0,250 kg/m ²
Primer (Steel & XPS)	DANOPRIMER PU - PU2K (polyurethane)	≥ 0,100 kg/m ²
Waterproofing membrane	DANOCOAT 250	≥ 1,7 kg/m ²
UV Protection	DANOCOAT PAS 700 (polyaspartic) (T1)	≥ 0,250 kg/m ²
	DANOCOAT PUR 2C (polyurethane aliphatic)	0,330 kg/m ²
Non-Slip additive	DANOCOAT NON-SLIP	5% - 10% weight mixed PUR 2C or PAS 700
	DANOQUARZT SP 49	Aggregate extending between the layers of the PUR 2C or PAS 700

DANOCOAT 250 is a liquid applied roof waterproofing based on 100% Pure Polyurea, manufactured by the company DANOSA, consists of a Pure Polyurea resins, bi-component, elastomeric without internal protection layer; which once polymerised conforms a jointless elastic lining, in form of a layer completely bonded to the support (concrete, mortar, ceramic, wood, metal, bituminous & PVC membranes, and polystyrene extruded (XPS). The minimum thickness of the DANOCOAT has to be 1.7 mm.

Depending on support condition, different type of primer may be advisable. DANOPRIMER EP, PU or PU2K. The system includes an aliphatic top-coat for sealing and protection against UV radiation, DANOCOAT PUR 2C, based on polyurethane aliphatic, or DANOCOAT PAS 700, based on polyaspartic resin.

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter EAD)

2.1 Intended use(s)

The intended use of this System is the waterproofing of roof against the water, as in liquid as vapour form, with any slope between 0 and >30 % (S1-S4), for any type of categorisation of user load between P1 a P4 on concrete-steel and P1-P3 on XPS, resists the effects of low surface temperatures of -20 °C (TL3), high temperatures of 90 °C (TH4) and a severe climatic zone of use.

This LARWK fulfils the Basic works requirements n.º 2 (Safety in case of fire), n.º 3 (Hygiene, health and the environment) and n.º 4 (Safety in use) of the European Regulation 305/11.

This LARWK is made of non load-bearing construction elements. It does not contribute directly to the stability of the roof on which is installed, but it can contribute its durability by providing enhanced protection from the effect of weathering.

This LARWK can be used on new or existing (retrofit) roofs. It can also be used on vertical surfaces (singular details).

2.2 Relevant general conditions for the use of the kit

The provisions made in this European Technical Approval (ETA) are based on an assumed intended working life of the system of 25 years from installation in the works, according to EAD 030350-00-0402, provided that the conditions lay down for the installation, packaging, transport and storage as well as appropriate use, maintenance and repair are met. In this respect.

The indications given on the working life (W3) cannot be interpreted as a guarantee given neither by the product manufacturer nor by EOTA nor by the Technical Assessment Body issuing this ETA, but are regarded only as a means for choosing the right product in relation to the expected economically reasonable working life of the works.

Installation. The Kit is installed on site. It is the responsibility of the manufacturer to guarantee that the information about design and installation of this system is effectively communicated to the concerned people.



This information can be given using reproductions of the respective parts of this ETA. Besides, all the data concerning the execution shall be clearly indicated on the packaging and/or the enclosed instruction sheets using one or several illustrations.

Design. The fitness of the respective use for the levels of performance of this System stated in Annex 1 complies with the Spanish national requirements. In the MTD the manufacturer gives information on the quantities consumed and the processing, which shall lead to a thickness of the roof waterproofing ≥ 1.7 mm.

Execution. Particularly, it is recommended to consider:

- The kit installation has to be carried out by qualified installers,
- it can only be used the components of the kit indicated in this ETA,
- the supervision of the amount of material used (kg/m^2) and the control visual to check that each coat cover totally the one below, can ensure the minimum thickness of the kits,
- inspection of the roof surface (cleanliness and correct preparation) before applying the roof waterproofing,
- It is applied by a hot spray applied machines. Temperatures: component A, 70-80 °C. Component B, 65-75°C. Hoses 70-75 °C. Pressure between 160-200 bars.

Before, the installation of DANOCOAT 250, it is recommended to read its security card and technical data sheets, available in site www.danosa.com

Use, maintenance and repair of the works. In those roofs with deteriorated areas of the waterproof layers, they will be repaired removing all the deteriorated layers. Afterwards, the new product will be assembled following the installation instruction and the new coats must overlap, at least 20 cm, to the coat no deteriorated. Further installation details are laid down in the MTD place at IETcc.

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

The identification tests and the assessment for the intended use of “DANOCOAT” according to the Basic Work Requirements (BWR) were carried out in compliance with the EAD 030350-00-0402. The characteristics of each system shall correspond to the respective values laid down in following tables of this ETA, checked by IETcc.

Methods of verification and of assessing and judging are listed afterwards.

3.1 Safety in case of fire (BWR 2)

Basic requirement for construction works 2: Safety in case of fire		
Essential characteristic	Relevant clause in EAD	Performance
External fire performance of roofs	2.2.1	Roof(t1) f supports with fire classification A1-A2, and roof slope $<20^\circ$. NPA for supports non-combustible
Reaction to fire	2.2.2	E/E _{fl} For supports with fire classification A1 and A2-s1, d0

3.2 Hygiene, health, and environment (BWR 3)

Basic requirement for construction works 3: Hygiene, health, and the environment			
Essential characteristic	Relevant clause in EAD	Performance	
Content, emission and/or release of dangerous substances	2.2.3	NPA	
Resistance to water vapour	2.2.4	$\mu = 1900$	
Watertightness	2.2.5	Watertight	
Resistance to wind loads	2.2.6	Support + Primer + membrane	≥ 50 kPa (kPa)
		Concrete	2300
		Steel	2300
		XPS	200



Resistance to mechanical damage (perforation)	2.2.7	P1-P3 on XPS support				
	2.2.7.1	P1-P4 on concrete /steel support				
		Resistance to dynamic indentation (23 °C)				
	2.2.7.2	Steel	I4 (6 mm)			
XPS		I3 (10 mm)				
Resistance to fatigue movement	2.2.8	Resistance to static indentation (23 °C)				
		Steel	L4 (250 N)			
	XPS	L3 (200 N)				
	W3 1000 cycles (-10 °C) Pass					
Resistance to the effects of low and high surface temperatures	2.2.9	Low temperatures: TL3 High temperatures: TH4				
	2.2.9.1	R. Dynamic Indentation at -20 °C	Steel: I4 (6 mm)			
		XPS: I3 (10 mm)				
	2.2.9.3	R. Static indentation at 90 °C	Steel: L4 (250 N)			
XPS: L4 (250 N)						
Resistance to ageing media (heat and water)	2.2.10.1	Resistance to heat ageing W3, S (severe) (200 days at 80 °C) without top coat				
		R. Dynamic Indentation -20 °C	Steel: I4 (6 mm)			
		XPS: I3 (10 mm)				
		Fatigue movement (50 cycles) at -10 °C: Pass				
	2.2.10.3	Resistance to water ageing W3, S1-S2, P4 (180 days at 60 °C)				
		R. Static indentation 90 °C	Steel: L4 (250 N)			
		XPS: L4 (250 N)				
		Resistance to delamination (kPa)	Concrete: 2200			
XPS: 500						
Resistance to UV radiation in the presence of moisture	2.2.10.2	W3, S (severe), 5000 hours With and without top coats				
			---	T1	T2	
		Resistance to dynamic Indentation -20 °C	Steel	I4	I4	I4
			XPS	I3	I3	I2
		Traction resistance (MPa)	Initial	8	16	10
			ageing	10	11	10
Elongation (%)	Initial	335	390	500		
	ageing	471	348	450		
Resistance to plant roots	2.2.11	No penetration of roofs				
Effects of variations in kit components and site practices	2.2.12	Tensile properties (MPa / %) 5 °C	22 / 390			
		Tensile properties (MPa / %) 40 °C	18 / 348			
		R. Dynamic Indentation (23 °C) at 5 °C	Steel: I4 (6 mm)			
		R. Dynamic Indentation (23 °C) at 40 °C	Steel: I4 (6 mm)			
Effects of the days joint	2.2.13	2200 kPa				

3.3 Safety in use (BWR 4)

Basic requirement for construction works 4: Safety and accessibility in use		
Essential characteristic	Relevant clause in EAD	Performance
Slipperiness	2.2.14	NPA



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

According to the decision 98/599/EC of October 1998, Official Journal of the European Communities N° L 287, 24.10.1998) of the European Commission, system 3 of assessment and verification of constancy of performance (see EC delegated regulation (EU) No 568/2014 amending Annex V to Regulation (EU) N° 305/2011) applies.

Product	Intended uses	Level or Classes	System
DANOCOAT	Liquid Applied Roof Waterproofing Kit	Any	3

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan which is deposited at IETcc¹.

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by

Director
on behalf of Instituto de Ciencias de la Construcción Eduardo Torroja (IETcc – CSIC)

