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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	**Neoproof Polyurea R**
Product family to which the construction product belongs	Liquid Applied Roof Waterproofing Kit, based on polyaspartic polyurea
Manufacturer	**NEOTEX S.A.** V. Moira, Industrial Area Mandra 196 00, Greece
Manufacturing plant(s)	V. Moira, Industrial Area Mandra 196 00, Greece
This European Technical Assessment contains	6 pages. included Annex 1, which form an integral part of this assessment + Annex 2 that contains confidential information and is not included in the European Technical Assessment when that assessment is publicly disseminated
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of	EAD 030350-00-0402 Liquid applied roof waterproofing kits

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Specific parts

1 Technical description of the product

The Liquid Applied Roof Waterproofing Kit (LARWK) Neoproof Polyurea R 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 or a supplier.

Components	Trade name		Consumption
Primer	Concrete	Neodur Primer 1K (Pr1)	≥ 0,12 L/m^2
		Acqua Primer NP (Pr2)	≥ 0,12 kg/m^2
	Steel	Neopox Special Primer 1225 (Pr3)	≥ 0,14 kg/m^2
		Neodur Primer 1K (Pr1)	≥ 0,12 L/m^2
	PU foam - Bitumen membrane	Acqua Primer NP (Pr2)	≥ 0,12 kg/m^2
System 1	Waterproofing membrane	Neoproof Polyurea R (without internal reinforcement)	≥ 1,50 kg/m^2
System 2	Waterproofing membrane	Neoproof Polyurea R (with internal reinforcement)	≥ 2,30 kg/m^2
	Internal mesh	Neotextile NP	-----

Neoproof Polyurea R (Neoroof Polyurea R for the market of Spain) is a liquid cold-applied roof waterproofing membrane based on polyaspartic polyurea, manufactured by the company NEOTEX S.A., intended for long-term protection of various substrates in roofs. It forms a blister-free and impermeable to moisture membrane, with high resistance to UV radiation and mechanical stress. The waterproofing systems are created by applying the elastomeric resin without internal reinforcement mesh (System 1) or with internal mesh (System 2), which, once polymerised, creates a jointless elastic lining, forming a layer completely bonded to the support (concrete, metal, PU foam, ceramics, bitumen membranes with or without mineral slate, PVC/TPO membranes, etc). Depending on support condition other type of primer may be advisable.

The minimum layer thickness of the assembled system has to be 1,0 mm without internal mesh-reinforcement and 1,2 mm with internal mesh-reinforcement.

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, both in liquid as well as vapour form, with any slope between 0 and > 30 % (S1-S4), for any type of categorisation of user load between P1 and P4 and resists the effects of low surface temperatures of –30 ºC (TL4) and high temperatures from +30 ºC (TH1) to +90 ºC (TH4)[1] (Annex 1) for a working life of 25 years (W3). This LARWK fulfils the Basic works requirements n.º 2 (Safety in case of fire), nº 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).

[1] P3 - P4: System 1 and System 2 on concrete-steel support at any high temperature (TH1-TH4) and low temperature (TL4)
P2: System 2 on PU and bitumen membranes supports at any high temperature TH1-TH4 and low temperature (TL4)
P1: System 1 on PU and bitumen membranes supports at any high temperature TH1-TH4 and low temperature (TL4)

2.2 Relevant general conditions for the use of the kit

The provisions made in this European Technical Assessment are based on an assumed working life of 25 years from installation in the works, according to EAD030350-00-0402, for the system 1 (1mm without internal mesh) and for the system 2 (1,2 mm with internal mesh) , 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 (25 years - 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 respective technical documents.

Design. In the MTD the manufacturer gives information on the quantities consumed and the processing, which shall lead to a thickness of the roof waterproofing ≥1.0 (System 1) and ≥1.2 mm (System 2).

Execution. Particularly, it is recommended to consider:

- The kit installation has to be carried out by qualified installers,
- The components of the kit indicated in this ETA can only be used,
- The supervision of the amount of material used (kg/m^2) and the visual control to check that each coat covers 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,
- The recommended temperature of the product to be assembled will be between +5 ºC and +40 ºC and it will be not admitted support temperatures upper to +45 ºC. In other conditions, it will need to follow the manufacturer's instructions

Before, the installation of Neoproof Polyurea R, it is recommended to read its safety data sheet.

Use, maintenance and repair of the works. Roofs with deteriorated areas of waterproofing layers will be repaired following the installation instructions of the manufacturer. Further installation details are laid down in the MTD placed 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 Neoproof Polyurea R according to the Basic Work Requirements (BWR) were carried out in compliance with 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	B_{roof}(t1) Pitch ≤ 20º for non-combustibles support
Reaction to fire	2.2.2	NPA

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	μ = 1923				
Watertightness	2.2.5	Watertight				
Resistance to wind loads	2.2.6	Delamination strength			Pass ≥ 50 kPa (kPa)	
		Concrete + Pr1			2090	
		Concrete + Pr2			NPA	
		Steel + Pr1			2320	
		Steel + Pr3			NPA	
		PU + Pr2			250	
		The failure mode was between support and membrane on concrete – steel support, on the PU support collapse the support				
Resistance to mechanical damage (perforation)	2.2.7	**P1 – P4** (annex 1)				
	2.2.7.1	Resistance to dynamic indentation (23 ºC) System 1: 1.5 kg/m^2 // System 2: 2.3 kg/m^2 + internal mesh				
		Support		Indentor	(mm)	
		Steel + System 1		I4	6	
		PU + System 1		I2	20	
		Steel + System 2		I4	6	
		PU + System 2		I2	20	
	2.2.7.2	Resistance to static indentation (23 ºC)				
		Support		Indentor	(N)	
		Steel + System 1		L4	250	
		PU + System 1		L3	200	
		Steel + System 2		L4	250	
		PU + System 1		L4	250	
Resistance to fatigue movement	2.2.8	System 1 and System 2 W3: 1000 cycles (-10 ºC): Pass				
Resistance to the effects of low and high surface temperatures	2.2.9	**Low temperatures:TL4** **Extreme low temperatures: TL4** **High temperatures: TH4**				
	2.2.9.1	R. Dynamic Indentation at TL4 (-30 ºC) System 1: 1.5 kg/m^2 // System 2: 2.3 kg/m^2 + internal mesh				
		Temperature (ºC)	Support	Level resistance	(mm)	
		-30 ºC	Steel + System 1	I4	6	
			PU + System 1	I2	20	
			Steel + System 2	I4	6	
			PU + System 2	I2	20	
	2.2.9.2	Crack bridging capacity: Pass				
	2.2.9.3	R. Static indentation (30 – 90 ºC)				
		Temperature (ºC)	Support	Level resistance	(N)	
		30 - 60 ºC	PU + System 1	L4	250	
			PU + System 2	L4	250	
		80 - 90 ºC	PU + System 1	L3	200	
			PU + System 2	L4	250	
			Steel + System 1	L4	250	
			Steel + System 2	L4	250	
Resistance to ageing media (Heat and water)	2.2.10.1	Resistance to heat ageing W3, S (severe) (100 / 200 days at 80 ºC)				
		R. Dynamic Indentation (-30 ºC) W3 System 1: 1.5 kg/m^2 // System 2: 2.3 kg/m^2 + internal mesh				
		T ºC	Days	Support	Level resistance	(mm)
		-30 ºC	100 days	Steel + System 1	I4	6
				PU + System 1	I1	30
				Steel + System 2	I4	6
				PU + System 2	I2	20
			200 days	Steel + System 1	I4	6
				PU + System 1	I1	30
				Steel + System 2	I4	6
				PU + System 2	I2	20
		Resistance to fatigue movement System 1 and System 2 after 200 days at 80ºC (50 cycles) at -10 ºC: Pass				
		Tensile properties (MPa / %) (200 days)				
		System 1: 1.5 kg/m^2	Without internal mesh	Initial: 6.8 / 447		
				Ageing: 4.6 / 376		

Resistance to ageing media (Heat and water)	2.2.10.3	Resistance to water ageing W3, System 1 – System 2, (60, 90 and 180 days at 60 ºC)				
		R. Static indentation System 1: 1.5 kg/m² // System 2: 2.3 kg/m² + internal mesh				
		Days	T ºC	Support	Level resistance	(N)
		60 days	30-60 ºC	PU + System 1	L3	200
				PU + System 2	L4	250
			80-90 ºC	Steel + System 1	L4	250
				Steel + System 2	L4	250
				PU + System 1	L1	70
				PU + System 2	L2	150
		90 days	30 ºC	PU + System 2	L3	200
			90 ºC	Steel + System 1	L4	250
				Steel + System 2	L4	250
				PU + System 1	L4	250
				PU + System 2	L2	150
		180 days	30-60 ºC	PU + System 1	L2	150
				PU + System 2	L3	200
			80-90 ºC	Steel + System 1	L4	250
				Steel + System 2	L3	250
				PU + System 1	L1	70
				PU + System 2	L1	70
	2.2.10.3	Resistance to delamination (kPa) **≥ 50 kPa** (60 ºC / 180 days) with system System 2				
		Concrete + Pr1			1920	
		Concrete + Pr2			NPA	
		Steel + Pr1			1520	
		Steel + Pr3			NPA	
		PU + Pr2			210	
		The failure mode was between support and membrane on concrete – steel support, on the PU support collapse the support				
Resistance to UV radiation in the presence of moisture	2.2.10.2	**W3, S (severe), 5000 hours**				
		R. Dynamic Indentation (-10 ºC) W3 System 1: 1.5 kg/m² // System 2: 2.3 kg/m² + internal mesh				
		Temperature (ºC)		Support	Level resistance	(mm)
		-10 ºC		Steel + System 1	I4	6
				PU + System 1	I2	20
				Steel + System 2	I4	6
				PU + System 2	I2	20
		Tensile properties (MPa / %)				
		System 1 (Without internal mesh)		Initial:	7 / 447	
				Ageing:	5 / 388	
		System 2 (With internal mesh)		Initial:	7.6 / 42	
				Ageing:	-------	
Resistance to plant roots	2.2.11	NPA				
Effects of variations in kit components and site practices	2.2.12	R. Dynamic indentation at 23 ºC				
		Curing Temperature		Support	Level resistance	(mm)
		5 ºC		Steel + System 1	I4	6
				PU + System 1	I2	20
		40 ºC		Steel + System 1	I4	6
				PU + System 1	I2	20
		Tensile properties				
		Curing Temperature		MPa / %		
		5 ºC		NPA		
		40 ºC		NPA		
Effects of the days joint	2.2.13	Delamination strength: 2,2 MPa				

3.3 Safety and accessibility 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 (hereinafter 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[2], system 3 of assessment and verification of constancy of performance (see EC delegated regulation (EU) No 568/2014 amending Annex V to Regulation (EU) Nº 305/2011) applies.

Product	Intended uses	Level or Classes	System
Neoproof Polyurea R	Liquid Applied Roof Waterproofing Kit	Any	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, which is deposited at IETcc[3].

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Issued in Madrid on 20 of July 2025
By

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

Annex 1.

Characteristics of the "Neoproof Polyurea R System"

Minimum thickness	Without internal mesh (System 1): 1.0 mm With internal mesh (System 2): 1.2 mm
Water vapour diffusion resistant factor	μ=1923
Resistance to wind loads	≥50kPa
Resistance to plant roots	NPA
Statement on dangerous substances	NPA
Resistance to slipperiness	NPA

Performance levels according to the intended use

External fire performance	B_{roof}(t1) Pitch ≤ 20º for non-combustibles support	
Fire reaction	NPA	
Expected working life	W3	
Climatic zone of use	S (Severe)	
User loads	System 1: 1.5 kg/m² // System 2: 2.3 kg/m² + internal mesh	
	Support; Concrete / steel: System 1 (without mesh) and System 2 (with mesh) P4: TH1-TH4 // TL4 P3: TH1-TH4 // TL4	Support; PU foam / bitumen membrane System 1 (without mesh) P1: TH1 – TH4 // TL4 System 2 (with mesh) P2: TH1 – TH4 // TL4
Roof slopes	S1 - S4	
Minimum surface temperature	TL4 (-30 °C)	
Maximum surface temperature	TH4 (90 °C) – TH1 (30 ºC)	

[2] Published in the Official Journal of the European Union (OJEU) L 262, 14/10/2003 P. 0034 - 0036.
See www.new.eur-lex.europa.eu/oj/direct-access.html
[3] The Control Plan is a confidential part of the ETA and only handed over to the notified certification body involved in the assessment and verification of constancy of performance.