CSIC
Consejo Superior de Investigaciones Científicas
INSTITUTO EDUARDO TORROJA

INSTITUTO DE CIENCIAS DE LA CONSTRUCCIÓN EDUARDO TORROJA
C/ Serrano Galvache, 4. 28033 Madrid (Spain)
Tel.: (+34) 91 302 0440 www.ietcc.csic.es
gestiondit@ietcc.csic.es dit.ietcc.csic.es

Designated according to Article 29 of Regulation (EU) No 305/2011

Member of EOTA
www.eota.eu

European Technical Assessment ETA 25/ 0091 of 20/ 07/ 2025

English translation prepared by IETcc. Original version in Spanish language

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 PU W**
Product family to which the construction product belongs	Liquid Applied Roof Waterproofing Kit, based on polyurethane resins
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	5 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

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex(es) referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

Specific parts

1. Technical description of the product

The Liquid Applied Roof Waterproofing Kit (LARWK) Neoproof PU W, based on PU resins, 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	Neoproof PU Primer (Pr1)	≥ 0,20 kg/m^2
		Revinex (Pr2) (diluted with water 1:4)	≥ 0,05 kg/m^2
	Steel	Acqua Primer NP (Pr3)	≥ 0,12 kg/m^2
		Neotex Metal Primer (Pr4)	≥ 0,10 kg/m^2
Internal reinforcement	Neotextile		-----
Waterproofing membrane	Neoproof PU W		≥ 2,5 kg/m^2

Neoproof PU W (Neoroof PU W for the market of Spain) is a liquid cold applied roof waterproofing membrane based on a polyurethane in water-based resin, manufactured by the company NEOTEX, S.A.. It forms an impermeable to moisture membrane, with resistance to UV radiation and mechanical stress. The waterproofing system consists of a resin, one-component, elastomeric with an internal mesh, which once polymerised creates a jointless elastic lining, forming of a layer completely bonded to the support (concrete, metal, etc[1]). Depending on support condition other type of primer may be advisable[2].

The minimum layer thickness of the assembled system has to be 1,4 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 P2–P3 and resists the effects of low surface temperatures of –20 ºC (TL3) and high temperatures form 30 ºC (TH1) to 90 ºC (TH4) (Annex 1) for a working life of 25 years (W3)[3]. 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 Assessment are based on an assumed working life of 25 years from installation in the works, according to EAD030350-00-0402, 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 (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.

[1] Other supports with similar comparability can be used.
[2] Under supervision and responsibility of the manufacturer other type of primer can be used with the system.
[3] P3 at TH1/TH2 //TL3
P2 at TH3-TH4 // TL3

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 corresponding technical documents.

Design. In the MTD the manufacture gives information on the quantities consumed and the processing, which shall lead to a thickness of the roof waterproofing ≥ 1.4 mm.

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 +5ºC and +40ºC and it will be not admitted support temperatures upper to 45ºC. In other conditions, it will need to follow the manufacturer's instructions

Before, the installation of Neoproof PU W, 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 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 Neoproof PU W 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	NPA
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 = 1724 (thickness 1.6 mm)	
Watertightness	2.2.5	Watertight	
Resistance to wind loads	2.2.6	Delamination strength:	Pass **≥ 50 kPa** (kPa)
		Steel + Pr3	1380
		Steel + Pr4	NPA
		Concrete + Pr1	1590
		Concrete + Pr2	NPA
		The failure mode was between support and membrane	

<table>
<tr><td rowspan="20">Resistance to mechanical damage (perforation)</td><td>2.2.7</td><td colspan="4">P2 - P3</td></tr>
<tr><td rowspan="3">2.2.7.1</td><td colspan="4">Resistance to dynamic indentation (23 ºC)</td></tr>
<tr><td colspan="2">Support</td><td colspan="2">Level of resistance</td></tr>
<tr><td colspan="2">Steel</td><td colspan="2">I4</td></tr>
<tr><td rowspan="3">2.2.7.2</td><td colspan="4">Resistance to static indentation (23 ºC)</td></tr>
<tr><td colspan="2">Support</td><td colspan="2">Level of resistance</td></tr>
<tr><td colspan="2">Steel</td><td colspan="2">L3</td></tr>
<tr><td>Resistance to fatigue movement</td><td>2.2.8</td><td colspan="4">Resistance to fatigue movement. W3: 1000 cycles (-10 ºC): Pass</td></tr>
<tr><td rowspan="8">Resistance to the effects of low and high surface temperatures</td><td>2.2.9</td><td colspan="4">Low temperatures:TL3
High temperatures: TH1 -TH4</td></tr>
<tr><td rowspan="3">2.2.9.1</td><td colspan="4">R. Dynamic Indentation at TL3
2.5 kg/m^2 (Without internal mesh)</td></tr>
<tr><td>Temperature</td><td>Support</td><td colspan="2">Level of resistance</td></tr>
<tr><td>-20 ºC</td><td>Steel</td><td colspan="2">I4</td></tr>
<tr><td rowspan="4">2.2.9.3</td><td colspan="4">R. Static indentation (30 – 90 ºC)</td></tr>
<tr><td>Temperature</td><td>Support</td><td colspan="2">Level of resistance</td></tr>
<tr><td>30 ºC</td><td rowspan="3">Steel</td><td colspan="2">L4</td></tr>
<tr><td>60 ºC</td><td colspan="2">L3</td></tr>
<tr><td>80 - 90 ºC</td><td colspan="2">L2</td></tr>
<tr><td rowspan="12">Resistance to ageing media (Heat and water)</td><td rowspan="5">2.2.10.1</td><td colspan="5">Resistance to heat ageing W3, S (severe)
(200 days at 80 ºC)</td></tr>
<tr><td colspan="5">R. Dynamic Indentation (-20 ºC) W3</td></tr>
<tr><td>Temperature</td><td>Days</td><td>Support</td><td colspan="2">Indentor</td></tr>
<tr><td>-20 ºC</td><td>200 days</td><td>Steel</td><td colspan="2">I4</td></tr>
<tr><td colspan="5">Resistance to fatigue movement after 200 days at 80 ºC
(50 cycles) at -10 ºC : Pass</td></tr>
<tr><td colspan="5">Tensile properties (MPa / %)</td></tr>
<tr><td colspan="2" rowspan="2">(Without internal mesh)</td><td colspan="3">Initial: 2.5 / 105</td></tr>
<tr><td colspan="3">Ageing: 3.4 / 79</td></tr>
<tr><td rowspan="6">2.2.10.3</td><td colspan="5">Resistance to water ageing W3, S1-S2,(60, days at 60 ºC)</td></tr>
<tr><td colspan="5">R. Static indentation</td></tr>
<tr><td>Days</td><td>Temperature</td><td>Support</td><td colspan="2">Level of resistance</td></tr>
<tr><td rowspan="4">60 days</td><td>30 ºC</td><td>Steel</td><td colspan="2">L4</td></tr>
<tr><td>60ºC</td><td>Steel</td><td colspan="2">L4</td></tr>
<tr><td>80ºC</td><td>Steel</td><td colspan="2">L3</td></tr>
<tr><td>90 ºC</td><td>Steel</td><td colspan="2">L2</td></tr>
<tr><td rowspan="4">Resistance to UV radiation in the presence of moisture</td><td rowspan="4">2.2.10.2</td><td colspan="5">W3, S (severe), 5000 hours with finishing layers</td></tr>
<tr><td colspan="5">R. Dynamic Indentation (-10 ºC / -20 ºC) W3
2.5 kg/m^2 (With internal mesh)</td></tr>
<tr><td>Temperature</td><td colspan="2">Support</td><td colspan="2">Indentor</td></tr>
<tr><td>-10 ºC</td><td colspan="2">Steel</td><td colspan="2">I4</td></tr>
<tr><td colspan="5">Tensile properties (MPa / %)</td></tr>
<tr><td rowspan="2">2.5 kg/m^2
(Without internal mesh)</td><td>Initial</td><td colspan="3">2.5 / 105</td></tr>
<tr><td>Ageing</td><td colspan="3">4.0 / 50</td></tr>
<tr><td rowspan="2">2.5 kg/m^2
(With internal mesh)</td><td>Initial</td><td colspan="3">3.0 / 92</td></tr>
<tr><td>Ageing</td><td colspan="3">-----</td></tr>
<tr><td>Resistance to plant roots</td><td>2.2.11</td><td colspan="5"></td></tr>
<tr><td rowspan="6">Effects of variations in kit components and site practices</td><td rowspan="6">2.2.12</td><td colspan="5">Tensile properties</td></tr>
<tr><td colspan="3">Curing Temperature</td><td colspan="2">(MPa / %)</td></tr>
<tr><td colspan="3">5 ºC</td><td colspan="2">NPA</td></tr>
<tr><td colspan="3">40 ºC</td><td colspan="2">NPA</td></tr>
<tr><td colspan="5">R. Dynamic Indentation 23 ºC.</td></tr>
<tr><td>Curing Temperature</td><td colspan="2">Support</td><td colspan="2">Indentor</td></tr>
<tr><td>5 ºC</td><td colspan="2">Steel</td><td colspan="2">I4</td></tr>
<tr><td>40 ºC</td><td colspan="2">Steel</td><td colspan="2">I4</td></tr>
<tr><td>Effects of the days joint</td><td>2.2.13</td><td colspan="5">1490 kPa</td></tr>
</table>

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[4], 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 PU W	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[5].

Prepared by: PhD Julián Rivera (Innovative Products Assessment Unit, IETcc-CSIC)
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 PU W System

Minimum thickness	1,4 mm
Water vapour diffusion resistant factor	μ = 1724 (thickness 1.6 mm)
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	NPA
Fire reaction	NPA
Expected working life	W3
Climatic zone of use	S (Severe)
User loads	P3: TH1-TH2 // TL3 P2: TH3-TH4 // TL3
Roof slopes	S1-S4
Minimum surface temperature	TL3 (-20 °C)
Maximum surface temperature	TH4 (90 °C) - TH1 (30 °C)

[4] 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
[5] 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.