



**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

**European Technical Assessment ETA 08/ 0270
of 01/ 11/ 2023**

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	SIKAFILL-365 TERRACE
Product family to which the construction product belongs	Liquid Applied Roof Waterproofing Kit, based on Water Dispersible polymers
Manufacturer	SIKA, S.A. Ctra. Fuencarral n.º 72. 28108 Alcobendas (Madrid). Spain.
Manufacturing plant(s)	Ctra. Fuencarral n.º 72. 28108 Alcobendas (Madrid). Spain.
This European Technical Assessment contains	5 pages including 1 Annex contains confidential information and is not included in this ETA
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
This version replace to	ETA 08/0270, issued 07/03/2018

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Specific parts

1. Technical description of the product

The Liquid Applied Roof Waterproofing Kit (LARWK) "SIKAFILL-365 TERRACE" 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	Consume
Waterproofing membrane	SIKAFILL-365 TERRACE	≥ 2,5 kg/m ²
Internal reinforcement	SIKALASTIC FLEECE 120	≥ 120 g/m ²

SIKAFILL-365 TERRACE is a one component liquid applied roof waterproofing based on water dispersible polymers, consists of a water dispersible styrene - acrylic copolymers, elastomeric with an internal reinforcing mesh; which once polymerized conforms an elastic lining, in form of a layer completely bonded to the support (steel, concrete, mortar, ceramic). The minimum layer thickness of the assembled membrane ≥1,9 mm.

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 P3 and resists the effects of low surface temperatures of -20 °C (TL3) and high temperatures of 90 °C (TH4). 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 10 years working life (W2) 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. In the MTD the manufacture gives information on the quantities consumed and the processing, which shall lead to a thickness of the roof waterproofing ≥ 1.9 mm.



Execution. Particularly, it is recommended to consider the:

- kit installation has to be carried out by qualified installers and it can only be used the components of the kit indicated in this ETA,
- supervision of the amount of material used (kg/m²) and the control visual 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,
- recommended temperature of the product to be assembled will be between 5 °C and 40 °C and it will be not admitted support temperatures upper to 45 °C. In other conditions it will need to follow the manufacturer's instructions.

Before, the installation of SIKAFILL-365 TERRACE, it is recommended to read its security card.

Use, maintenance and repair of the works. In those roofs with deteriorated areas of the waterproof layers, they will be repaired carrying out some light grinding to open the pore of the deteriorated layers. Afterwards, the new product will be assembled following the installation instruction and the new coats must overlap, at least 10 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 "SIKAFILL-365 TERRACE" 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) with slope < 20°
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 = 10 000 (1.9 mm thickness)	
Watertightness	2.2.5	Watertight	
Resistance to wind loads	2.2.6	Support + PIR + membrane	≥ 50 kPa (kPa)
		Concrete	1290
		Ceramic bricks	1109
Resistance to mechanical damage (perforation)	2.2.7	P3	
		<i>Resistance to dynamic indentation (23 °C)</i>	
	2.2.7.1	Steel	I4 (6 mm)
<i>Resistance to static indentation (23 °C)</i>			
2.2.7.2	Steel	L4 (250 N)	
	2.2.8	W2 500 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 t -20 °C
	2.2.9.3	R. Static indentation 60 -90 °C	Steel: L3 (200 N)



Resistance to ageing media (heat and water)	2.2.10.1	Resistance to heat ageing W2, S (severe) (200 days at 70 °C)	
		R. Dynamic Indentation -20 °C	Steel: I4 (6 mm)
		Fatigue movement (50 cycles) at -10 °C: Pass	
		Tensile properties (MPa / %)	Without reinforcement Initial: 2 / 410 Ageing: 3.4 / 216
			Initial 7 / 54 Ageing: 11 / 40
Resistance to UV radiation in the presence of moisture	2.2.10.2	Resistance to water ageing W2, S1-S2, P3 (60 days at 60 °C)	
		R. Static indentation 60 - 90 °C	Steel: L (250 N)
		Resistance to delamination (kPa)	Concrete 3042
Resistance to plant roots	2.2.10.2	W2, S (severe), 2000 hours	
		R. to dynamic Indentation -20 °C	Steel: I4 (6mm)
		Tensile properties (MPa / %)	Without reinforcement Initial: 2 / 410 UV ageing: 3.7 / 197
			Initial: 7 / 54 UV ageing: 9.4 / 53
Resistance to plant roots	2.2.11	NPA	
Effects of variations in kit components and site practices	2.2.12	Tensile properties (MPa / %) 5 °C	3 / 328
		Tensile properties (MPa / %) 40 °C	3 / 333
		R. Dynamic Indentation (23 °C) 5 °C	Steel: I4 (6 mm)
		R. Dynamic Indentation (23 °C) 40 °C	Steel: I4 (6 mm)
Effects of the days joint	2.2.13	2427 kPa	

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

4.1 System of assessment and verification of constancy of performance

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 Commission¹, 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
SIKAFILL-365 TERRACE	Liquid Applied Roof Waterproofing Kit	Any	3

¹ 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 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 IETcc².

5.1 Tasks of the manufacturer

Factory production control. The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall ensure that the product is in conformity with this ETA.

The manufacturer may only use components stated in the technical documentation of this ETA including Control Plan. The incoming raw materials are subjected to verifications by the manufacturer before acceptance.

The factory production control shall be in accordance with the Control Plan. The results of factory production control shall be recorded and evaluated in accordance with the provisions of the Control Plan

Other tasks of the manufacturer. The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of this ETA.

5.2 Tasks of notified bodies.

Initial type-testing of the product. For type testing, the results of the tests performed as part of the assessment for the European Technical Assessment shall be used unless there are changes in the production line or plant. In such cases, the necessary type testing has to be agreed between IETcc and the notified body.

The initial type-testing have been conducted by the IETcc to issue this ETA in accordance with the EAD 030350-00-0402 "Liquid applied roof waterproofing kits". The verifications underlying this ETA have been furnished on samples from the current production.

Issued in Madrid on 1 of November 2023

By

Mr. Ángel Castillo Talavera
Director

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

² 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.

