





European Technical Assessment

ETA-19/0242 of 19.06.2019

General part

Technical Assessment Body issuing the European Technical Assessment

Österreichisches Institut für Bautechnik (OIB) Austrian Institute of Construction Engineering

Trade name of the construction product

Roof waterproofing "Sikalastic® Rapid-722"
Roof waterproofing "Sikalastic® Rapid-722 Detail"
Roof waterproofing "Sikalastic® Rapid-722
Sommer Detail"
Roof waterproofing "Sikalastic® Rapid-722 Winter

Roof waterproofing "Sikalastic® Rapid-722 Winter" Roof waterproofing "Sikalastic® Rapid-722 SB"

Product family to which the construction product belongs

Liquid applied roof waterproofing kit on the basis of reactive polymethylmethacrylate

Manufacturer

SIKA Deutschland GmbH Kornwestheimerstrasse 107 70439 Stuttgart Germany

Manufacturing plant

Werk 1

This European Technical Assessment contains

8 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

Guideline for European technical approval (ETAG) Nr. 005 "Liquid applied roof waterproofing kits – Part 4: Specific stipulations for kits based on flexible unsaturated polyester", used as European Assessment Document (EAD)



In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the kits falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions).

In order to meet the provisions of the EU Construction Products Directive, these requirements need also to be complied with, when and where they apply.

The ETA will contain the generic specification of the other components of the assembled system, which are not part of the kit.

Specific part

1. Technical description of the product

This product is a liquid applied roof waterproofing kit on the basis of reactive polymethylmethacrylate. This kit comprising components, which are factory-produced by the manufacturer or component suppliers. The ETA holder is ultimately responsible for all components of the liquid applied roof waterproofing kit specified in this ETA.

1.1 Definition of the construction product

The liquid applied roof waterproofings "Sikalastic® Rapid-722", "Sikalastic® Rapid-722 Detail", "Sikalastic® Rapid-722 Sommer Detail", "Sikalastic® Rapid-722 Winter" and "Sikalastic® Rapid-722 SB" are kits, which consist following components:

- liquid applied roof waterproofing on the basis of a two-component reactive polymethylmethacrylate
- polyester fleece as felt layer for reinforcing

As an assembled system these components form a homogeneous seamless roof waterproofing. For an adequate adhesion of the waterproofing layer, which is depending on the type of the substrate, a primer is required in responsibility of the manufacturer.

The primers "Sikalastic® Rapid Primer Beton Fläche" and "Sikalastic® Rapid Primer Beton WU" on the basis of reactive polymethylmethacrylate are used in addition for mineral substrates, such as concrete, mortar or screed.

The primers "Sikalastic® Rapid Primer Uni Detail" and "Sikalastic® Rapid Primer Asphalt" on the basis of reactive polymethylmethacrylate are used in addition for the substrate asphalt and hot and cold asphalt.

"Sikalastic® Rapid-722 Detail" is the Detailotropic variation for applications on details, such as upstands, corners, connections etc..

"Sikalastic® Rapid-722 Sommer Detail" is the Detailotropic variation for applications on details at high temperatures, such as upstands, corners, connections etc..

"Sikalastic® Rapid-722 Winter" is a variation with a shorter curing time for applications at low temperatures.

"Sikalastic® Rapid-722 SB" is a sprayable varation, specifically for spray application with airless spray pumps.

Annex 1 shows the components and the system build-up of the roof waterproofings "Sikalastic® Rapid-722", "Sikalastic® Rapid-722 Detail", "Sikalastic® Rapid-722 Sommer Detail", "Sikalastic® Rapid-722 Winter" and "Sikalastic® Rapid-722 SB".



The minimum layer thickness of the roof waterproofing applied is 1.7 mm. The weight of the polyester fleece is approx. 110 g/m².

Kits based on this ETA cover all components of the assembled system within a set generic specification in accordance to the ETA Holder.

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

2.1 Intended use

The intended use of this construction is the waterproofing of roof surfaces against penetration of atmospheric water.

In the manufacturer's technical literature to this European Technical Assessment the manufacturer has to give any information concerning the suitable substrates and how these substrates shall be pre-treated.

2.2 Working life

This European Technical Assessment, based on the provisions, test and assessment methods in the guideline ETAG-005 used as EAD, have been written based upon the assumed intended working life of the liquid applied roof waterproofing kit for the intended use of 25 years, provided that the Kit is subject to appropriate use and maintenance. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

2.3 General assumptions

For evaluating roof waterproofing "Sikalastic® Rapid-722", roof waterproofing "Sikalastic® Rapid-722 Detail", roof waterproofing "Sikalastic® Rapid-722 Sommer Detail", roof waterproofing "Sikalastic® Rapid-722 SB" it is assumed that

- The building shall be sufficiently structurally sound to carry the additional imposed load exerted by the assembled system,
- Roofs shall be properly designed with adequate falls/drainage,
- Regular maintenance of the roof shall be conducted

2.4 Manufacturing

The European Technical Assessment is issued for roof waterproofing "Sikalastic® Rapid-722", roof waterproofing "Sikalastic® Rapid-722 Detail", roof waterproofing "Sikalastic® Rapid-722 Sommer Detail", roof waterproofing "Sikalastic® Rapid-722 Winter", roof waterproofing "Sikalastic® Rapid-722 SB" on the basis of agreed data/information, deposited with the Österreichisches Institut für Bautechnik, which identifies the product/kit that has been assessed and judged. Changes to the product/kit or production process, which could result in this deposited data/information being incorrect, should be notified to the Österreichisches Institut für Bautechnik before the changes are introduced.

The Österreichisches Institut für Bautechnik will decide whether or not such changes affect the European Technical Assessment and consequently the validity of the CE marking on the basis of the European Technical Assessment and if so whether further Assessment or alterations to the European Technical Assessment, shall be necessary.



2.5 Installation

The fitness for use of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions 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, such as the Detailotropic variants "Sikalastic® Rapid-230 Detail" or "Sikalastic® Rapid-722 Sommer Detail" for details as upstands, corners, connections etc.
- precautions during installation,
- inspecting the roof surface for cleanliness and correct preparation, if need be, applying a primer before applying the product,
- inspecting compliance with suitable weather and curing conditions,
- finding out whether to the given ambient temperature the application with the adjustment for summer ("Sikalastic® Rapid-722") or winter ("Sikalastic® Rapid-722 Winter") is to be accomplished.
- ensuring a thickness of the waterproofing of at least 1.7 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

The information as to the method of repair on site and handling of waste products shall be observed.

Roof waterproofing "Sikalastic® Rapid-722", roof waterproofing "Sikalastic® Rapid-722 Detail", roof waterproofing "Sikalastic® Rapid-722 Sommer Detail", roof waterproofing "Sikalastic® Rapid-722 Winter" and roof waterproofing "Sikalastic® Rapid-722 SB" shall be installed and used in accordance with the technical product literature of the manufacturer.

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

Basic requirements for construction works	Characteristics		
BWR 2	Safety in case of fire		
BWR 3	Hygiene, health and environment		
BWR 4	Safety and accessibility in use		
BWR 7	Sustainable use of natural resources		

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

According to EN 13501-1:2010 the waterproofing kit fulfils the requirements for reaction to fire class E.

3.1.2 Resistance to fire

According to the Annex of Commission Decision 2000/553/EC the assembled system is tested in accordance with ENV 1187 to the appropriate test method for the corresponding external performance roof class and is classified B_{Roof} (t1) according to EN 13501-5.

3.2 Hygiene, health and environment (BWR 3)

3.2.1 Water vapour permeability

Water vapour permeability factor (µ): 4.330

3.2.2 Watertightness

According to Technical Report EOTA TR 003 the assessed kit is watertight.



3.2.4 Effects of highest and lowest surface temperatures

Lowest surface temperature: TL4 (- 30 °C) Highest surface temperature: TH4 (90 °C)

3.2.5 Resistance against ageing

Performance and tensile properties, after exposure W3 of accelerated ageing by heat, artificial weathering and accelerated ageing by hot water are kept.

3.2.6 Resistance to plant roots

According to EN 13948 the product is resistant to plant roots.

3.2.7 Release of dangerous substances

According to the manufacturer's declaration the assessed system does not contain dangerous substances detailed in Council Directive 67/548/EEC and Regulation (EC) no 1272/2008 as well as EOTA TR 034 (General ER 3 Checklist for ETAGs/CUAPs/ETAs- Content and/or release of dangerous substances in products/kits), edition March 2012.

A written declaration in this respect was submitted by the ETA-holder.

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

3.3 Safety and accessibility in use (BWR 4)

3.3.1 Resistance to wind load

Bond strength on concrete substrate is > 50 kPa.

3.4 Sustainable use of natural resources (BWR 7)

No performance assessed.

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

4.1 AVCP system

According to Decision 97/556/EC (Decision of the Commission of 14 July 1997, L 229 of 20.8.1997, p. 15), as amended by Decision 2001/596/EC (Decision of the Commission of 8 January 2001, L 209 of 2.8.2001, p. 33), the systems of AVCP given in the following table apply:

Products	Intended uses	Level or Class	System
Liquid applied roof waterproofing kits	For all roof waterproofing uses	Any	System 3

The systems of AVCP are described in Annex V of Regulation (EU) No 305/2011, as amended by Delegated Regulation (EU) No 568/2014.



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

At the manufacturing plant, the manufacturer has to implement and continuously maintain a factory production control system.

All elements, requirements and provisions adopted by the manufacturer in this respect are documented in a systematic manner in the form of written policies and procedures.

The records shall be kept at least for ten years and presented to Österreichisches Institut für Bautechnik on request.

The factory production control system ensures that the performance of the product is in conformity with the European Technical Assessment.

If test results are unsatisfactory, the manufacturer shall immediately implement measures to eliminate the defects. Construction products not in conformity with the requirements shall not be CE marked.

Technical details of the actions to be undertaken by the manufacturer in relation to the factory production control are laid down in the control plan deposited at Österreichisches Institut für Bautechnik.

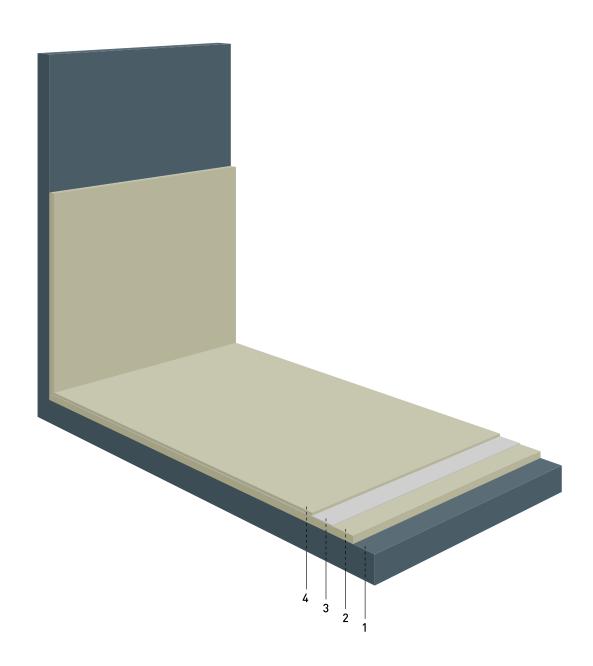
When all criteria of the assessment and verification of constancy of performance are met, the manufacturer shall issue a declaration of performance.

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Rainer Mikulits Managing Director



ANNEX 1 Schematic detail of the product



- 1 Substrate (with primer, if required)
- 2 "Sikalastic® Rapid-722", "Sikalastic® Rapid-722 Detail", "Sikalastic® Rapid-722 Sommer Detail", "Sikalastic® Rapid-722 Winter" and "Sikalastic® Rapid-722 SB"
- 3 Polyester fleece layer (nominal weight 110 g/m²)
- 4 "Sikalastic® Rapid-722", "Sikalastic® Rapid-722 Detail", "Sikalastic® Rapid-722 Sommer Detail", "Sikalastic® Rapid-722 Winter" and "Sikalastic® Rapid-722 SB"



ANNEX 2

Characteristics of the product

Minimum layer thickness 1,7 mm
Minimum quantity consumed 2,5 kg/m²

Levels of use categories according to ETAG 005 with relation to:

Working life W3 (25 years)

Climatic zones M and S (moderate and severe climate)

Imposed loads P1 to P4 (non-compressible and compressible substrate)

Roof slope S1 to S4
Lowest surface temperature TL4 (-30 °C)
Highest surface temperature TH4 (90 °C)
Use category related to BWR 3 S/W 2

Performance of the kit:

Resistance to spreading fire and radiant heat $B_{roof}(t1)$ (EN 13501-5) Reaction to fire class E (EN 13501-1)

Water vapour diffusion resistance factor $\mu \approx 4.330$ Watertightness watertight

Statement on dangerous substances does not contain any Resistance to plant roots resistant (EN 13948)

Resistance to wind loads ≥ 50 kPa on concrete substrate