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European Technical Assessment

ETA-12/0316 of 23/08/2017

Technical Assessment Body issuing the ETA:	British Board of Agrément
Trade name of the construction product:	Sikalastic -618
Product family to which the construction product belongs:	3 Membranes, including liquid applied and kits for water and/or water vapour control
Manufacturer:	Sika Services AG Corporate Construction Tüffenweis 16 CH-8048 Zürich Switzerland
Manufacturing plant(s):	Sika Liquid Plastics Sika House Miller Street Preston Lancashire PR1 1EA United Kingdom
This European Technical Assessment contains:	5 pages including one Annex which forms an integral part of the document
This European Technical Assessment is issued in accordance with Regulation (EU) No. 305/2011 on the basis of:	ETAG 005, edition 2004, used as European Assessment Document (EAD)
This ETA replaces:	12/0316 with validity from 10 August 2012 to 23 August 2017

1 Technical description of the product

Sikalastic -618 is a kit consisting of a single-component moisture-triggered polyurethane and glass-reinforcing scrim. Specific substrates require a primer to promote adhesion of the roof waterproofing. Once installed, the kit forms a homogeneous roof waterproofing layer. The kit is used to produce the specifications given in Table 1; the rates given are for smooth substrates.

Table 1 Coverage rate ($l \cdot m^{-2}$)

Layer	Specification build-up	
	Standard	**Advanced**
Basecoat	1.0 (Sikalastic 618)	1.0 (Sikalastic 618)
Reinforcement	Sika Reemat Premium	Sika Reemat Premium
Topcoat	0.75 (Sikalastic 618)	1.0 (Sikalastic 618)
Finished thickness	1.3 mm	1.5 mm

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

Sikalastic -618 is for use as a liquid-applied roof waterproofing on flat and pitched roofs on the following substrates:

- unprimed concrete
- asphalt
- bitumen roofing felt.

The provisions made in this ETA are based on an assumed working life of 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be used as a means for selecting the appropriate product in relation to the expected economically reasonable working life of the works.

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

3.1 Mechanical resistance and stability (BWR 1)

Not relevant.

3.2 Safety in case of fire (BWR 2)

Characteristic	Method	Classification
External fire performance	ENV 1187 : 2002 Tests 1 and 4 Classified to EN 13501-5	See Annex A
Reaction to fire	EN ISO 11925-2 : 2010 Classified to EN 13501-1	See Annex A

3.3 **Health, hygiene and the environment (BWR 3)**

Characteristic	Method	Classification
Resistance to water vapour	EN 193	See Annex A
Watertightness	EOTA TR-003	See Annex A
Resistance to wind loads	EOTA TR-004	See Annex A
Resistance to dynamic indentation	EOTA TR-006	See Annex A
Resistance to static indentation	EOTA TR-007	See Annex A
Resistance to fatigue movements	EOTA TR-008	See Annex A
Effect of low surface temperatures	EOTA TR-006	See Annex A
Extreme low temperatures	EOTA TR-006 EOTA TR-013	No performance assessed
Effects of high surface temperature	EOTA TR-007	See Annex A
Resistance to heat ageing	EOTA TR-011 EN ISO 527-4 EOTA TR-006 EOTA TR-008	See Annex A
UV radiation in the presence of water	EOTA TR-010 EN ISO 527-4 EOTA TR-006	See Annex A
Root resistance	EN 13948	No performance assessed
Content and/or release of dangerous substances(1)	EOTA TR-034	No performance assessed

(1) The manufacturer has made a declaration that the product does not contain any dangerous substances**.**

3.4 **Safety and accessibility in use (BWR 4)**

Characteristic	Method	Classification
Resistance to wind loads	EOTA TR-004	See Annex A
Resistance to water ageing	EOTA TR-012 EOTA TR-004	See Annex A
Slipperiness	SS 92 3515	No performance assessed

3.5 **Protection against noise (BWR 5)**

Not relevant.

3.6 **Energy economy and heat retention (BWR 6)**

Not relevant.

3.7 **Sustainable use of natural resources (BWR 7)**

Not relevant.

3.8 **Related aspects to serviceability**

Characteristic	Method	Classification
Comparative for variation in installation temperature		See Annex A
Tensile strength	EN ISO 527-	
Dynamic indentation	EOTA TR-006	
Effects of day joints	EOTA TR-004	See Annex A

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 the European Commission(1) and amended by Decision 2001/596/EC of the European Commission(2), the system of assessment and verification of constancy of performance [see Annex V to Regulation (EU) No 305/2011] is as follows:

Product	Intended use	Level or class	System
Liquid applied roof waterproofing kits	For all roof waterproofing uses	—	3

(1) Official Journal of the European Communities L 287 of 24.10.1998.
(2) Official Journal of the European Communities L 209 of 02.08.2001.

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 Assessment and Verification of Constancy of Performance (AVCP) are laid down in the control document deposited at the British Board of Agrément.

5.1 Tasks of the Manufacturer

The manufacturer must make a declaration of conformity, stating that the construction product is in conformity with the provisions of the European Technical Assessment.

On behalf of the British Board of Agrément

John Albon – Head of Approvals – Construction Products

Claire Curtis-Thomas
Chief Executive

Date of Second issue: 23 August 2017

ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF SIKALASTIC -618

This annex applies to the Sikalastic -618 roof waterproofing kit described in the main body of the European Technical Assessment.

The substrates applicable to this kit are defined in the main body of this ETA.

Water vapour diffusion — equivalent air layer thickness (S_d) — 2.58 m.

Water vapour resistance factor (μ) — 2260.

Water vapour transmission — 13.9 $g \cdot m^{-2} \cdot day^{-1}$.

Resistance to wind loads — >50 kPa.

Assembled kit thickness
Standard — 1.3 mm.
Advanced — 1.5 mm.

The categorisation of levels of performance in accordance with ETAG 005 is given in Table 1.

Table 1 Levels of performance

Characteristic	**Level of performance**
External fire performance	B_{ROOF} (t1)(1) B_{ROOF} (t4)(2)
Reaction to fire	
Categorisation by working life	Euroclass E
Categorisation by climatic zones	W2
Categorisation by imposed loads:	M and S
most compressible substrate	P3
least compressible substrate	P4
Categorisation by roof slope	S1 to S4
Categorisation by surface temperature:	
lowest	TL3
highest	TH4
Statement on dangerous substances	None contained
Root resistance	NPD
Slipperiness [slope(°)/friction coefficient]	NPD

(1) The tests were carried out on a non-combustible, calcium silicate board substrate, at a pitch of 15°.
(2) The tests were carried out on a non-combustible calcium silicate board substrate at zero pitch.