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## European Technical Assessment

## ETA-14/0177 of 19/09/2019

### General Part

Technical Assessment Body issuing the European Technical Assessment:

British Board of Agrément

Trade name of the construction product:

Sikalastic -641/Sikalastic -631

Product family to which the construction product belongs:

3: Liquid-applied roof waterproofing

Manufacturer:

Sika Services AG  
Corporate Construction  
Tüffenwies 16  
CH-8048 Zürich  
Switzerland

Manufacturing plant:

Sika Limited  
Miller Street  
Preston  
Lancashire  
PR1 1EA  
United Kingdom

This European Technical Assessment contains:

8 pages including three 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:

ETAG 005, Parts 1 and 6, edition March 2000 (revised March 2004), used as the European Assessment Document (EAD).

This ETA amends:

ETA 14/0177 (with validity from 16 May 2018 to 19 September 2019)

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## 1 Technical description of the product

The kit consists of the following components:

- Sikalastic -641 — a one-part, moisture-triggered, aliphatic polyurethane
- Sikalastic -631 — a one-part, moisture-triggered, aromatic polyurethane for use as a basecoat
- Sika Concrete Primer — for priming concrete substrates
- Sika Concrete Primer LO — a low-odour primer for concrete substrates
- Sika Metal Primer — for preparing metal substrates
- Sika Reemat Premium — a non-woven glass reinforcement
- Sika Reemat Standard — a non-woven glass reinforcement
- Sikalastic Fleece -200 — a polyester fleece reinforcement
- Skid-inhibiting Grit — to provide a non-slip finish to the final coat.

The kit is used to produce two- and three-coat applications. The application rates, finished thickness and reinforcements are given in the following tables.

<b>Coverage rate and finished thickness</b>					
System build-up	Sikalastic -641 Economic System	Sikalastic -641 Standard System	Sikalastic -641 Enhanced System	Sikalastic -641 Premium System	Sikalastic -641 Premium Fleece System
Base coat ( $\ell \cdot m^{-2}$ ) (Sikalastic -641)	1.00	1.25	1.25	1.25	1.25
Reinforcement	Sika Reemat Standard	Sika Reemat Premium	Sika Reemat Premium	Sika Reemat Premium	Sikalastic Fleece - 200
Top coat ( $\ell \cdot m^{-2}$ ) (Sikalastic -641)	0.5	0.5	0.75	0.6 two coats	0.6 two coats
Dry film thickness (mm)	1.3	1.5	1.8	2.2	2.2

<b>Coverage rate and finished thickness</b>				
System build-up	SikaRoof i-Cure -12	SikaRoof i-Cure -15	SikaRoof i-Cure -18	SikaRoof i-Cure -22
Base coat ( $\ell \cdot m^{-2}$ ) (Sikalastic -631)	0.75	1.00	1.00	1.00
Reinforcement	Sika Reemat Standard	Sika Reemat Premium	Sika Reemat Premium	Sika Reemat Premium
Top coat ( $\ell \cdot m^{-2}$ ) (Sikalastic -641)	0.75	0.75	1.10	0.8 two coats
Dry film thickness (mm)	1.3	1.5	1.8	2.2

Sika Biowash is an auxiliary to the kit and is a surface biocide for the treatment of microbial contamination (fungi, algae, lichen, mildew and moulds) on substrates prior to application of the kit.

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

For use as a liquid-applied roof waterproofing on flat and pitched roofs on the following substrates:

- concrete
- bituminous roofing felt
- steel
- asphalt
- Sika-approved carrier membranes over jointed substrates, including timber
- existing coatings/roof paints
- single-ply membranes including PVC, TPO and EPDM
- PIR insulation board in conjunction with a Sika-approved carrier membrane
- mineral wool insulation (MW) in conjunction with Sika-approved carrier membrane.

The provisions made in this EAD are based on an assumed working life for the roof of 10 years for the Economic System, Standard System, SikaRoof i-Cure -12 and SikaRoof i-Cure -15, and 25 years for the Enhanced System, Premium System, Premium Fleece System, SikaRoof i-Cure -18 and SikaRoof i-Cure -22. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are to be regarded only as a means for choosing the right products 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 : 2012 Tests 1 and 4 Classified to EN 13501-5 : 2005 + A1 : 2009	See Annex A
Reaction to fire	EN ISO 11925-2 : 2010 Classified to EN 13501-1 : 2007 + A1 : 2009	See Annex A

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

Characteristic	Method	Category
Resistance to water vapour	EN 1931 : 2000	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	NPD
Effects of high surface temperature	EOTA TR-007	See Annex A
Resistance to heat ageing	EOTA TR-011 EN ISO 527-4 : 1996 EOTA TR-006 EOTA TR-008	See Annex A
UV radiation in the presence of water	EOTA TR-010 EN ISO 527-4 : 1996 EOTA TR-006	See Annex A
Resistance to water ageing	EOTA TR-012 EOTA TR-004 EOTA TR-007	See Annex A
Root resistance	EN 13948 : 2007	NPD
Content and/or release of dangerous substances <sup>(1)</sup>	EOTA TR-034	NPD

(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	Category
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	See Annex A

### 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	Category
Comparative testing of dynamic indentation – variation in installation temperature	EN ISO 527-4 : 1996 EOTA TR-006	See Annex A
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 Decision 98/599/EC of the European Commission<sup>(1)</sup> and amended by Decision 2001/596/EC of the European Commission<sup>(2)</sup>, the AVCP system (see Annex V to Regulation (EU) No 305/2011) given in the following table applies.

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

#### 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

Date of Fourth issue: 19 September 2019

John Albon  
Chief Scientific Officer

Claire Curtis-Thomas  
Chief Executive

## ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF SIKALASTIC -641/-631

This annex applies to the Sikalastic -641/-631 roof waterproofing kit used to produce the Economic System, Standard System, SikaRoof i-Cure -12 and SikaRoof i-Cure -15 described in the main body of the ETA.

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

The kit has the following characteristics:

- water vapour resistance factor ( $\mu$ )
  - 1.3 mm Economic System — 3082
  - 1.3 mm SikaRoof i-Cure -12 — 3837
  - 1.5 mm SikaRoof i-Cure -15 — 6172
- resistance to wind loads — >50 kPa
- assembled kit thickness — 1.3 and 1.5 mm

The categorisation of levels of performance in accordance with ETAG 005 are:

- External fire performance
  - $B_{ROOF}(t1)^{(1)(2)}$
  - $B_{ROOF}(t4)^{(1)(2)}$
- Reaction to fire — Euroclass E
- Categorisation by working life — W2
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads
  - Economic System/Standard System — P2 to P4
  - SikaRoof i-Cure -12 — P2 to P3
  - SikaRoof i-Cure -15 — P3 to 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
no Skid-Inhibiting Grit (dry)	18.7/0.34
Skid-Inhibiting Grit at 0.25 kg·m <sup>-2</sup> (dry)	29.0/0.55
Skid-Inhibiting Grit at 1.00 kg·m <sup>-2</sup> (dry)	32.0/0.62
no Skid-Inhibiting Grit (wet)	16.7/0.30
Skid-Inhibiting Grit at 0.25 kg·m <sup>-2</sup> (wet)	28.3/0.54
Skid-Inhibiting Grit at 1.00 kg·m <sup>-2</sup> (wet)	32.0/0.62.

(1) The system tested consisted of an 18 mm plywood substrate primed with Primer 600, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m<sup>-2</sup>, 80 mm glass fibre faced polyisocyanurate insulation board, Primer 600 applied at 150 g·m<sup>-2</sup>, one layer of Carrier Membrane SA, one coat of Sikalastic -641 applied at 1.0 l·m<sup>-2</sup>, a layer of Sika Reemat Premium and one coat of Sikalastic -641 applied at 0.5 l·m<sup>-2</sup>.

(2) The system tested consisted of an 18 mm plywood substrate primed with Primer 610, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m<sup>-2</sup>, 80 mm glass fibre faced polyisocyanurate insulation board, Primer 610 applied at 150 g·m<sup>-2</sup>, one layer of S-vap 5000E SA self-adhesive Carrier Membrane, one coat of Sikalastic -631 applied at 0.75 l·m<sup>-2</sup>, a layer of Sika Reemat Premium and one coat of Sikalastic -641 applied at 0.75 l·m<sup>-2</sup>.

## ANNEX B CATEGORISATION OF LEVELS OF PERFORMANCE OF SIKALASTIC -641/-631

This annex applies to the Sikalastic -641/-631 roof waterproofing kit used to produce the Enhanced System, Premium System, SikaRoof i-Cure -18 and SikaRoof i-Cure -22 described in the main body of the European Technical Assessment.

The substrates applicable to this kit are defined in the main body of the European Technical Assessment.

The kit has the following characteristics:

- water vapour resistance factor ( $\mu$ )
  - 1.8 mm Enhanced System — 2878
  - 1.8 mm SikaRoof i-Cure -18 — 4171
  - 2.2 mm Premium System — 2782
  - SikaRoof i-Cure -22 — 3804
- resistance to wind loads — >50 kPa
- assembled kit thickness — 1.8 and 2.2 mm

The categorisation of levels of performance in accordance with ETAG 005 are:

- External fire performance
  - $B_{ROOF}(t1)^{(1)(2)}$
  - $B_{ROOF}(t4)^{(1)(2)}$
- Reaction to fire — Euroclass E
- Categorisation by working life — W3
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads — P3 to P4
- Categorisation by roof slope — S1 to S4
- Categorisation by surface temperature
  - lowest — TL3 (Enhanced System and SikaRoof i-Cure -18), TL4 (Premium System and SikaRoof i-Cure -22)
  - highest — TH4
- Statement on dangerous substances — none contained
- Root resistance — NPD
- Slipperiness

	Slope(°)/friction coefficient
no Skid-Inhibiting Grit (dry)	18.7/0.34
Skid-Inhibiting Grit at 0.25 kg·m <sup>-2</sup> (dry)	29.0/0.55
Skid-Inhibiting Grit at 1.00 kg·m <sup>-2</sup> (dry)	32.0/0.62
no Skid-Inhibiting Grit (wet)	16.7/0.30
Skid-Inhibiting Grit at 0.25 kg·m <sup>-2</sup> (wet)	28.3/0.54
Skid-Inhibiting Grit at 1.00 kg·m <sup>-2</sup> (wet)	32.0/0.62.

(1) The system tested consisted of an 18 mm plywood substrate primed with Primer 600, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m<sup>-2</sup>, 80 mm glass fibre faced polyisocyanurate insulation board, Primer 600 applied at 150 g·m<sup>-2</sup>, one layer of Carrier Membrane SA, one coat of Sikalastic -641 applied at 1.25 ℓ·m<sup>-2</sup>, a layer of Sika Reemat Premium and one coat of Sikalastic - 641 applied at 0.6 ℓ·m<sup>-2</sup>.

(2) The system tested consisted of an 18 mm plywood substrate primed with Primer 610, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m<sup>-2</sup>, 80 mm glass fibre faced polyisocyanurate insulation board, Primer 610 applied at 150 g·m<sup>-2</sup>, one layer of S-vap 5000E SA self-adhesive Carrier Membrane, one coat of Sikalastic -631 applied at 1.0 ℓ·m<sup>-2</sup>, a layer of Sika Reemat Premium and two coats of Sikalastic -641 applied at 0.8 ℓ·m<sup>-2</sup>.

## ANNEX C CATEGORISATION OF LEVELS OF PERFORMANCE OF SIKALASTIC -641

This annex applies to the Sikalastic -641 roof waterproofing kit used to produce the Premium Fleece System described in the main body of the European Technical Assessment.

The substrates applicable to this kit are defined in the main body of the European Technical Assessment.

The kit has the following characteristics:

- water vapour resistance factor ( $\mu$ )  
2.2 mm — 2782
- resistance to wind loads — >50 kPa
- assembled kit thickness — 2.2 mm

The categorisation of levels of performance in accordance with ETAG 005 are:

- External fire performance  
 $B_{ROOF}(t1)^{(1)}$   
 $B_{ROOF}(t4)^{(1)}$
- Reaction to fire — Euroclass E
- Categorisation by working life — W3
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads — P4
- Categorisation by roof slope — S1 to S4
- Categorisation by surface temperature  
lowest — TL4  
highest — TH4
- Statement on dangerous substances — none contained
- Root resistance — NPD
- Slipperiness

	Slope(°)/friction coefficient
no Skid-Inhibiting Grit (dry)	18.7/0.34
Skid-Inhibiting Grit at 0.25 kg·m <sup>-2</sup> (dry)	29.0/0.55
Skid-Inhibiting Grit at 1.00 kg·m <sup>-2</sup> (dry)	32.0/0.62
no Skid-Inhibiting Grit (wet)	16.7/0.30
Skid-Inhibiting Grit at 0.25 kg·m <sup>-2</sup> (wet)	28.3/0.54
Skid-Inhibiting Grit at 1.00 kg·m <sup>-2</sup> (wet)	32.0/0.62.

(1) The system tested consisted of an 18 mm plywood substrate, one layer of S-vap 5000E SA self-adhesive vapour control layer, Decostik SP polyurethane adhesive applied at 100 g·m<sup>-2</sup>, 80 mm glass fibre faced polyisocyanurate insulation board, Primer 600 applied at 150 g·m<sup>-2</sup>, one layer of Carrier Membrane SA, one coat of Sikalastic -641 applied at 1.25 l·m<sup>-2</sup>, a layer of Sika Reemat Premium and one coat of Sikalastic - 641 applied at 0.6 l·m<sup>-2</sup>.



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