



Designated according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020

UK Technical Assessment	UKTA-0836-23/6853 of 17/05/2023
Technical Assessment Body issuing the UK Technical Assessment:	British Board of Agrément
Trade name of the construction product:	Sikalastic D-15 Roof Pro Advanced
Product family to which the construction product belongs:	Membranes, including liquid applied and kits (for water and water vapour control)
Manufacturer:	Sika Services AG Corporate Construction Tüffenwies 16 CH-8048 Zürich Switzerland
Manufacturing plant(s):	Sika Limited Miller Street Preston Lancashire PR1 1EA United Kingdom
This UK Technical Assessment contains:	8 pages including 2 Annexes which form an integral part of the document
This UK Technical Assessment is issued in accordance with The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 on the basis of:	UKAD 030350-00-0402 <i>Liquid applied roof waterproofing kits</i>

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1. Technical description of the product

The kits consist of the following components:

- Sikalastic D-15 Roof Pro Advanced — a one-part, moisture-triggered, aliphatic polyurethane
- Sika Concrete Primer — a primer for concrete substrates
- Sika Concrete Primer LO — a low odour primer for concrete substrates
- Sika Bonding Primer — a primer for concrete substrates
- Sika Metal Primer — for preparing metal substrates
- Sikafloor -151 — a two-part primer for preparing mastic asphalt substrates
- Sika Reemat Premium — a non-woven, glass fibre reinforcement for embedment in the base layer during installation
- Sikalastic Flexistrip — a 50 mm square self-adhesive patch for use over bolt and fixing heads
- Sika Flexitape Heavy — a nylon mesh for use at fibre-cement/metal substrate joints
- Sika Joint Tape SA — a polymeric, self-adhesive rubberised tape with a woven polyester face use at fibre-cement/metal substrate joints and over bolt and fixing heads
- Skid-Inhibiting Grit — to provide a non-slip finish to the final coat
- Sikafloor 701 — a two-component epoxy primer, levelling mortar and mortar screed binder.

The kits are used to produce two-coat systems, the application rates of the coats and reinforcement are:

	Locally reinforced kit	Fully reinforced kit
Base coat ($\ell \cdot m^{-2}$)	0.5	1.0
Reinforcement	Sikalastic Flexistrip or Sika Joint Tape SA over bolt and fixing heads Sika Joint Tape or Sika Flexitape Heavy at fibre-cement/metal substrate joints	Sika Reemat Premium
Top coat ($\ell \cdot m^{-2}$)	0.5	1.0
Dry film thickness (mm)	0.7	1.5

Sikalastic D-15 Roof Pro Advanced kits are satisfactory for use on the following substrates:

- As a fully reinforced system on flat roofs with limited access on:
 - concrete (primed and unprimed)
 - mastic asphalt
 - bituminous roofing membranes, including mineral surfaced
 - galvanized steel
 - non-mineralised bitumen roofing membranes on plywood
 - liquid-applied bituminous roof coating
 - aluminium paint
 - polyisocyanurate (PIR) foam insulation boards in conjunction with a specified carrier membrane
 - existing polyurethane roofs
- As a locally reinforced system on existing fibre cement (including asbestos) and Plastisol-coated metal roofs.

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

The kit is for use as a liquid-applied roof waterproofing, including balconies and terraces, to resist the passage of water to the building's internal structure, where Essential Requirements 2: *Safety in the case of fire*, 3: *Hygiene, health and the environment* and 4: *Safety in use*, including the aspect of durability, apply.

The provisions made in this UK Technical Assessment are based on an assumed working life for the roof of 10 years for the locally reinforced kit, and 25 years for the fully reinforced kit. The indications given on the working life cannot be interpreted as a guarantee given by the producer or by the Technical Assessment Body, 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	Classification
External fire performance	See Annex A
Reaction to fire	See Annex A

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

Characteristic	Category
Content emission and/or release of dangerous substances	No performance assessed
Resistance to water vapour	See Annex A
Watertightness	See Annex A
Resistance to wind loads	See Annex A
Resistance to mechanical damage (perforation)	See Annex A
Resistance to fatigue movement	See Annex A
Resistance to the effects of low and high surface temperatures	See Annex A
Resistance to ageing media (heat and water)	See Annex A
Resistance to UV radiation in the presence of moisture	See Annex A
Resistance to plant roots	No performance assessed
Effects of variations in kit components and site practices	No performance assessed
Effects of day joints	See Annex A

3.4. Safety and accessibility in use (BWR 4)

Characteristic	Category
Slipperiness	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)

No performance assessed.

4. Assessment and verification of constancy of performance (hereinafter AVCP) system applied

4.1. System of assessment and verification of constancy of performance

According to UKAD No. 030350-00-0402 and Annex V of the Construction Products Regulation (Regulation (EU) 305/2011) as brought into UK law and amended, the system of assessment and verification of constancy of performance (AVCP) 3 applies.

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with the British Board of Agrément and made available to the UK Approved Bodies involved in the conformity attestation process.

5.1. UKCA marking for the product/ system must contain the following information:

- Identification number of the Approved Body
- Name/address of the manufacturer of the product/ system
- Marking with intention of clarification of intended use
- Date of marking
- UKTA number.

On behalf of the British Board of Agrément



Date of Issue: 17 May 2023

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ANNEX A

CATEGORISATION OF LEVELS OF PERFORMANCE OF SIKALASTIC D-15 ROOF PRO ADVANCED FULLY REINFORCED KIT

This annex applies to the Sikalastic D-15 Roof Pro Advanced fully reinforced kit roof waterproofing kit used to produce the system described in the main body of the UK Technical Assessment.

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

The kit has the following characteristics:

- Water vapour resistance factor (μ) — 1427
- Water vapour diffusion – equivalent air layer thickness (S_d) — 2.82 m
- Resistance to wind loads — >50 kPa
- Assembled kit thickness — 1.5 mm.

The categorisation of levels of performance in accordance with UKAD 030350-00-0402 are:

- Watertightness – Pass
- External fire performance — BROOF(t1)⁽¹⁾⁽²⁾, BROOF(t4)⁽¹⁾⁽³⁾
- 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 — TL4
 - Highest — TH4
- Statement on dangerous substances — No performance assessed
- Root resistance — No performance assessed
- Slipperiness — see below

[slope (°)/friction coefficient]:

no grit (dry) 18.7/0.34

grit at 0.25 kg·m⁻² (dry) 29.0/0.55

grit at 1.00 kg·m⁻² (dry) 32.0/0.62

no grit (wet) 16.7/0.30

grit at 0.25 kg·m⁻² (wet) 28.3/0.54

grit at 1.00 kg·m⁻² (wet) 32.0/0.62.

- (1) The system tested consisted of a 12 mm plywood substrate, Primer 610, VCL S-Vap 5000E SA, a 0.6 mm self-adhesive membrane, polyurethane adhesive, 80 mm PIR insulation board with glass facings, Primer 610, Carrier membrane S-Vap 5000E SA, a 0.6 mm self-adhesive membrane, one coat of Sikalastic D-15 Roof Pro Advanced applied at 1.0 l·m⁻², a layer of Sika Reemat Premium and one coat of Sikalastic D-15 Roof Pro Advanced applied at 1.0 l·m⁻².
- (2) The system tested consisted of a 6 mm thick calcium silicate board, Primer 610, 2.6 mm thick SBS modified bitumen roofing membrane, one coat of Sikalastic D-15 Roof Pro Advanced applied at 1.0 l·m⁻², a layer of Sika Reemat Premium and one coat of Sikalastic D-15 Roof Pro Advanced applied at 1.0 l·m⁻².
- (3) The system tested consisted of a 6 mm thick calcium silicate board, one coat of Sikalastic D-15 Roof Pro Advanced applied at 1.0 l·m⁻², a layer of Sika Reemat Premium and one coat of Sikalastic D-15 Roof Pro Advanced applied at 1.0 l·m⁻².

ANNEX B

CATEGORISATION OF LEVELS OF PERFORMANCE OF SIKALASTIC D-15 ROOF PRO ADVANCED LOCALLY REINFORCED KIT

This annex applies to the Sikalastic D-15 Roof Pro Advanced locally reinforced kit roof waterproofing kit used to produce the system described in the main body of the UK Technical Assessment.

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

The kit has the following characteristics:

- Water vapour resistance factor (μ) — 926
- Water vapour diffusion – equivalent air layer thickness (S_d) — 1.83 m
- Resistance to wind loads — >50 kPa
- Assembled kit thickness — 0.7 mm.

The categorisation of levels of performance in accordance with UKAD 030350-00-0402 are:

- Watertightness – Pass
- External fire performance — $B_{ROOF}(t1)^{(1)}$, $B_{ROOF}(t4)^{(1)(2)}$
- Reaction to fire — Euroclass E
- Categorisation by working life — W2
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads — P3
- Categorisation by roof slope — S1 to S4
- Categorisation by surface temperature
 - Lowest — TL3
 - Highest — TH3
- Statement on dangerous substances — No performance assessed
- Root resistance — No performance assessed
- Slipperiness — No performance assessed

(1) The system tested consisted of a 6 mm thick calcium silicate board, one coat of Sikalastic D-15 Roof Pro Advanced applied at $0.5 \ell \cdot m^{-2}$ and one coat of Sikalastic D-15 Roof Pro Advanced applied at $0.5 \ell \cdot m^{-2}$.

(2) The system tested consisted of a 1.3 mm thick plastisol coated steel sheet, one coat of Sikalastic D-15 Roof Pro Advanced applied at $0.5 \ell \cdot m^{-2}$ and one coat of Sikalastic D-15 Roof Pro Advanced applied at $0.5 \ell \cdot m^{-2}$.



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