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Authorised and notified
according to Article 29 of the
Regulation (EU)
No 305/2011 of the European
Parliament and of the Council
of 9 March 2011

MEMBER OF EOTA



European Technical Assessment ETA-20/1013 of 2020/12/20

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

SikaRoof PUR-18

Product family to which the above construction product belongs:

Liquid-applied roof waterproofing using kits based on polyurethane

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:

5 pages including 1 annex which form an integral part of the document

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

European Assessment document (EAD) no. EAD 030350-00-0402 for Liquid applied roof waterproofing kits

This version replaces:

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full [except the confidential Annex(es) referred to above]. However, partial reproduction may be made with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

1 Technical description of the product

The SikaRoof PUR-18 kit consists of the following components:

- Sikalastic -701 — a two-part acrylic polyurethane hybrid, UV protective top layer
- Sikalastic -702 — a two-part polyurea waterproofing layer
- Sika Concrete Primer LO — a two-part, low odour primer for concrete substrates
- Sikafloor -161 — a two-part epoxy primer for asphalt substrates
- Sikalastic Metal Primer — a two-part epoxy primer for preparing metal substrates.

The kit is used to produce a two-coat system. The application rates of the coats are:

Base coat (Sikalastic -702) ($\ell \cdot \text{m}^{-2}$)	2.03 (2.5 $\text{kg} \cdot \text{m}^{-2}$)
Top coat (Sikalastic -701) ($\ell \cdot \text{m}^{-2}$)	0.3 (0.35 $\text{kg} \cdot \text{m}^{-2}$)
Dry film thickness (mm)	2.23.

Sika Roof PUR-18 is satisfactory for use on the following substrates:

- concrete
- mastic asphalt
- bituminous roofing membranes, including mineral surfaced
- galvanized steel
- polyisocyanurate (PIR) foam insulation boards in conjunction with a specified carrier membrane.

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

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 European Technical Assessment are based on an assumed working life for the roof of 10 years for the kit. The indications given on the working life cannot be interpreted as a guarantee given by the producer or 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 Safety in case of fire (BWR 2)**

Characteristic	Classification
External fire performance	See Annex A
Reaction to fire	See Annex A

3.2 Health, hygiene and the environment (BWR 3)

Characteristic	Category
Resistance to water vapour	See Annex A
Watertightness	See Annex A
Resistance to wind loads	See Annex A
Resistance to dynamic indentation	See Annex A
Resistance to static indentation	See Annex A
Resistance to fatigue movements	See Annex A
Effect of low surface temperatures	See Annex A
Extreme low temperatures	See Annex A
Effects of high surface temperature	See Annex A
Resistance to heat ageing	See Annex A
UV radiation in the presence of water	See Annex A
Resistance to water ageing	See Annex A
Root resistance	No performance assessed
Content and/or release of dangerous substances	No performance assessed
Comparative testing of dynamic indentation – variation in installation temperature	See Annex A
Effects of day joints	See Annex A

3.3 Safety and accessibility in use (BWR 4)

Characteristic	Category
Resistance to wind loads	See Annex A
Resistance to water ageing	See Annex A
Slipperiness	No performance determined

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) 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

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 ETA-Danmark A/S prior to CE marking.

Issued in Copenhagen on 2020-12-20 by



Thomas Bruun

Managing Director, ETA-Danmark

ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF SIKAROOF PUR-18

This annex applies to the SikaRoof PUR-18 roof waterproofing kit used to produce the system described in the main body of the European Technical Assessment.

The substrate 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 (μ) — 2962
- water vapour diffusion – equivalent air layer thickness (S_d) — 4.89 m
- resistance to wind loads — >50 kPa
- assembled kit thickness — 2.23 mm.

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

- external fire performance — $B_{ROOF}(t1)^{(1)}$, $B_{ROOF}(t4)^{(1)}$
- reaction to fire — Euroclass E
- categorisation by working life — W2
- categorisation by climatic zones — M and S
- categorisation by imposed loads — P2 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 — No performance assessed

(1) The system tested consisted of a 6 mm thick calcium silicate board, a 2.03 mm coat of Sikalastic -702 and a 0.2 mm coat of Sikalastic -701.