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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-20/1024 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:**

Decothane Root Resistant Waterproofing System

**Product family to which the above construction product belongs:**

Roof Waterproofing

**Manufacturer:**

Sika Limited  
Miller Street  
Preston  
Lancashire  
PR1 1EA  
United Kingdom

**Manufacturing plant:**

Sika Liquid Plastics  
Miller Street  
Preston  
Lancashire  
PR1 1EA  
United Kingdom

**This European Technical Assessment contains:**

7 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 kit consists of the following components:

- Decothane Root Resistant Base Coat and Top Coat — a root-resistant, one-part, moisture-triggered, liquid-applied aliphatic polyurethane roof waterproofing applied as a base coat and a top coat
- Decothane Root Resistant Detail Coat — a root-resistant, one-part, moisture-triggered, liquid-applied aliphatic polyurethane for use as a topcoat in exposed areas of the system (eg upstands)
- Sika Reemat Premium — a non-woven glass reinforcement for use as a reinforcement embedded in the Base Coat layer while still wet, and available for use in strips to cover individual cracks, joints or details
- Sika Flexitape — a nylon mesh available in light- and heavy-duty grades for use in reinforcing over cracks or substrate joints.

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

<b>Coverage rate and finished thickness</b>	
<b>Layer</b>	<b>Specification build-up</b>
Base coat ( $\ell \cdot m^{-2}$ )	1.5
Reinforcement	Sika Reemat Premium
Top coat ( $\ell \cdot m^{-2}$ )	1.0
Finished thickness (mm)	2.1

At exposed areas, such as upstands, Decothane Root Resistant Detail Coat should be substituted for the Decothane Root Resistant Top Coat applied in two coats at the rate of  $0.75 \ell \cdot m^{-2}$  and  $0.75 \ell \cdot m^{-2}$ .

## 2 Specification of the intended use(s) in accordance with the applicable EAD

The kit is for use as a liquid-applied roof waterproofing in:

- warm ballasted roof specifications using pavers or other suitable protection on flat roofs with limited or pedestrian access
- inverted roof specifications using aggregate ballast on flat roofs with limited access
- protected inverted roof specifications using pavers or other suitable protection on flat roofs with limited or pedestrian access
- green roof specifications (defined as extensive, lightweight systems composed typically of succulents, such as sedum, or other hardy plant species) on flat roofs with limited or pedestrian access or pitched roofs with limited access
- roof garden specifications (defined as intensive systems designed primarily for recreational use and requiring structural consideration to accommodate the additional weight) on flat roofs with limited or pedestrian access
- biodiverse specifications (similar in composition to an extensive roof but designed specifically to create a habitat) on flat roofs with limited or pedestrian access or pitched roofs with limited access.

The kit has been assessed for use on precast concrete, concrete block substrate decks, screeds, asphalt, bitumen felt, and correctly-constructed plywood decks.

The provisions made in this European Technical Assessment are based on an assumed working life of the roof of 25 years. 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 (ER 2)

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

#### 3.2 Health, hygiene and the environment (ER 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	See Annex A
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 in use (ER 4)

Characteristic	Category
Resistance to wind loads	See Annex A
Resistance to water ageing	See Annex A
Slipperiness	See Annex A

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

According to the 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 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 DECOTHANE ROOT RESISTANT WATERPROOFING SYSTEM**

This annex applies to the Decothane Root Resistant Waterproofing System 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 the European Technical Assessment.

The kit has the following characteristics:

- water vapour resistance factor ( $\mu$ ) — 1235
- resistance to wind loads — >50 kPa
- assembled kit thickness — 2.1 mm.
- The categorisation of levels of performance in accordance with EAD 030350-00-0402 are as follows:
- External fire performance — No performance assessed <sup>(1)</sup>
- Reaction to fire — No performance assessed
- Categorisation by working life — W3
- Categorisation by climatic zones — M and S<sup>(2)</sup>
- Categorisation by imposed loads — P4
- Categorisation by roof slope — S1
- Categorisation by surface temperature  
lowest — TL1  
highest — TH2
- Statement on dangerous substances — No performance assessed
- Root resistance<sup>(3)</sup> — Satisfactory
- Slipperiness — No performance assessed

(1) When the kit is fully covered by the inorganic coverings listed in the Annex of Commission Decision 2000/553/EC it can be considered to satisfy the requirements regarding external fire performance without the need for testing in accordance with the Commission Decision 2000/553/EC.

(2) UV ageing not carried out as assembled kit is always under protection.

(3) Tested to DIN 4062 : 1978 *Cold processable plastic jointing materials for sewer drains; jointing materials for prefabricated parts of concrete, requirements, testing and processing.*