

British Board of Agrément

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European Technical Assessment ETA-14/0331

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

Trade name

Decothane Ultra

Holder of assessment:

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

(1) The registered office of the Holder is Sika Ltd, Watchmead, Welwyn Garden City, Hertfordshire AL7 1BQ. Registered in England : 226822.

Generic type and use of construction product:

Liquid-applied roof waterproofing using kits based on polyurethane

Issued on:

3 September 2014

Manufacturing plant:

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

This European Technical Assessment contains:

This European Technical Assessment contains 4 pages plus one Annex which forms an integral part of the document.

Basis of ETA:

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of the *Guideline for European Technical Approval (ETAG) of Liquid Applied Roof Waterproofing Kits 005 Part 1: General and Part 6 Specific Stipulations for Kits Based on Polyurethane* Edition March 2000 Revised March 2004) used as the European Assessment Document (EAD).



Member of EOTA

1 Technical description of the product

The kit consists of the following components:

- Decothane Ultra – a one-part, moisture-triggered, aliphatic polyurethane
- Quick Cure Primer – for priming concrete substrates
- Metal Primer – for preparing metal substrates
- Sika Reemat Premium – a non-woven glass reinforcement
- Skid-inhibiting Grit – to provide a non-slip finish to the final coat
- Carrier Membrane SA – a self-adhesive membrane for fully bonding over substrates with open joints, such as insulation boards, as a supporting layer.

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

Coverage rate and finished thickness

System build-up	Ultra 15	Ultra 20	Ultra 25
Base coat ($\ell \cdot m^{-2}$)	1.25	1.25	1.25
Reinforcement	Sika Reemat Premium	Sika Reemat Premium	Sika Reemat Premium
Top coat ($\ell \cdot m^{-2}$)	0.5	0.75	0.6 two coats
Dry film thickness (mm)	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, mosses, lichen, mildew and moulds) on substrates prior to application of the kit.

2 Specification of the intended use in accordance with the applicable EAD

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

- concrete
- bituminous roofing felt
- steel
- Carrier Membrane SA
- existing coatings/roof paints
- timber, in conjunction with Sika Carrier SA
- polyisocyanurate foam insulation (PIR) in conjunction with Sika Carrier SA
- single-ply membranes including PVC, TPO and EPDM (for appropriate primer, please consult Sika Liquid Plastics).

The provisions made in this European Technical Assessment are based on an assumed working life for the roof of 10 years. 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 (ER1)

Not relevant

3.2 Safety in case of fire (ER2)

Characteristic	Method	Classification
External fire performance	ENV 1187 : 2002 Test 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 Hygiene, health and the environment (ER3)

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 ⁽¹⁾	EOTA TR-034	NPD

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

3.4 Safety in use (ER 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 (ER 5)

Not relevant.

3.6 Energy economy and heat retention (ER 6)

Not relevant.

3.7 Related aspects to serviceability

Characteristic	Method	Category
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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 (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.



On behalf of the British Board of Agrément

Simon Wroe
Head of Approvals – Materials

Claire Curtis-Thomas
Chief Executive

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*Amended 18 September 2014 due to missing clauses.

ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF DECOTHANE ULTRA

5 Technical details necessary for the implementation of the AVCP system, as outlined in the applicable EAD

5.1 Tasks of the manufacture

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

This annex applies to the Decothane Ultra 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 (μ)
 - 1.8 mm — 2878
 - 2.2 mm — 2782
- resistance to wind loads — >50 kPa
- assembled kit thickness — 1.5 mm, 1.8 mm and 2.2 mm

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

- External fire performance
 - $B_{ROOF}(t1)$
 - $B_{ROOF}(t4)$
- Reaction to fire — Euroclass E
- Categorisation by working life — W2
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads

Hard substrate — P4

Soft substrate — P2

- 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 ⁻² (dry)	29.0/0.55
Skid-Inhibiting Grit at 1.00 kg·m ⁻² (dry)	32.0/0.62
no Skid-Inhibiting Grit (wet)	16.7/0.30
Skid-Inhibiting Grit at 0.25 kg·m ⁻² (wet)	28.3/0.54
Skid-Inhibiting Grit at 1.00 kg·m ⁻² (wet)	32.0/0.62