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## European Technical Assessment

## ETA 15/0910 of 21/10/2016

Technical Assessment Body issuing the European Technical Assessment

British Board of Agrément

Trade name of the construction product

ISOTOP<sup>(1)</sup> PU HYBRID

(1) ISOTOP is a registered trademark.

Product family to which the construction product belongs

Membranes, including liquid-applied and kits (for water and/or water vapour control).

Assessment holder:

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Manufacturing plant

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This European Technical Assessment contains

4 pages including one Annex 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

*Guideline for European Technical Approval (ETAG) of Liquid-Applied 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)*

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## 1 Technical description of the product

The kit consists of the following components:

- ISOTOP PU HYBRID— a water based polyurethane/acrylic liquid-applied roof waterproofing
- Reinforcement — a 50 g·m<sup>-2</sup> polyester fleece
- Astari Vivedur — an acrylic primer for substrates.

The kit is used to produce a three layer ISOTOP PU HYBRID Roof Coating system, with a total coverage rate of two litres per square metre, with the 50 g·m<sup>-2</sup> polyester fleece embedded in the first coat. The dry film thickness is 1 mm.

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

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

- concrete
- bituminous roofing membrane.

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 (BWR 1)

Not relevant.

### 3.2 Safety in case of fire (BWR 2)

Characteristic	Method	Classification
External fire performance	ENV 1187 : 2002 Tests 1 and 4 Classified to EN 13501 : 2005 + A1 : 2009	NPD
Reaction to fire	EN ISO 11925-2 : 2010 Classified to EN 13501-1 : 2007 + A1 : 2009	NPD

### 3.3 Hygiene, health and environment (BWR 3)

Characteristic	Method	Classification
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 temperatures	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	EOTA TR-034	See Annex A

### 3.4 Safety in use (BWR 4)

Characteristic	Method	Classification
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	NPD

### 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	Classification
Comparative testing of dynamic indentation — variation in installation temperature	EN ISO 527-4 : 1996 EOTA TR-006	See Annex A
Effects of day joints	SS 92 3515	See Annex A

#### 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<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	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 in the applicable EAD

##### 5.1 Tasks of the Assessment Holder

The Assessment Holder 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

John Albon — Head of Approvals  
Energy and Ventilation

Claire Curtis-Thomas  
Chief Executive

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## ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF PU HYBRID ROOF COATING

This annex applies to the ISOTOP PU HYBRID Roof Coating kit used to produce the system described in the main body of this European Technical Assessment.

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

The kit has the following characteristics:

- water vapour resistance factor ( $\mu$ ) — 3631
- water vapour diffusion — equivalent air layer thickness  $S_d$  — 4.5 m
- resistance to watertightness — pass
- resistance to wind loads — >50 kPa
- assembled kit thickness — 1 mm.

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

- External fire performance — NPD
- Reaction to fire — NPD
- Categorisation by working life — W2
- Categorisation by climatic zones — M and S
- Categorisation by imposed loads
  - slope categorisation S3 and S4 hard substrate — P2
  - slope categorisation S3 and S4 soft substrate — P1
  - slope categorisation S1 and S2 — P1
- Categorisation by roof slope — S1 to S4
- Categorisation by surface temperature:
  - lowest — TL3
  - highest — TH3
- Statement on dangerous substrates — none contained
- Root resistance — NPD
- Slipperiness — NPD.

