Deutsches Institut für Bautechnik

Approval body for construction products and types of construction

Bautechnisches Prüfamt

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# European Technical Assessment

# ETA-14/0484 of 9 October 2014

**General Part**

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|---|---|
| Technical Assessment Body issuing the European Technical Assessment: | Deutsches Institut für Bautechnik |
| Trade name of the construction product | ALSAN 461<br>TEXPUR |
| Product family to which the construction product belongs | Liquid applied roof waterproofing on the basis of polyurethane |
| Manufacturer | SOPREMA SAS<br>14, Rue de Saint Nazaire<br>67025 STRASBOURG CEDEX 1<br>FRANKREICH |
| Manufacturing plant | Produktionsanlage 7 |
| This European Technical Assessment contains | 7 pages including 2 annexes 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 of "Liquid applied roof waterproofing kits", ETAG 005 Part 6: "Specific stipulations for kits based on polyurethane", version March 2000, amended March 2004, used as European Assessment Document (EAD) according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011. |

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## Specific Part

### 1 Technical description of the product

The liquid applied roof waterproofings "ALSAN 461" and "TEXPUR" are kits, which consist of the components:

- Primer (if required),
- liquid applied roof waterproofing on the basis of a one-component reactive polyurethane,
- polyester fleece as reinforcement.

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer is required. In general the primer belonging to the substrate is given in the manufacturer technical documents[1]. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

Depending on the levels the minimum layer thickness of the roof waterproofing applied is 1.6 mm respectively 2.9 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing.

The components and the system build-up of the roof waterproofing "ALSAN 461" and "TEXPUR" are given in Annex A1.

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

The product is used for the waterproofing of roof surfaces against penetration of atmospheric water.

In the technical file the manufacturer give information concerning the substrates which the product is suitable for and on how these substrates shall be pre-treated.

The levels of use categories are given in Annex A1.

The verification and assessment methods on which this European Technical Assessment is based lead to the assumption of working life of the product of 10 respectively 25 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.

The levels of use categories and performances given in Section 3 are only valid if the liquid applied roof waterproofing is used in compliance with the specifications and conditions given in Annex B1 and the installation instructions of the manufacturer stated in the technical file.

[1] The manufacturer's technical documents comprises all information necessary for the production and the installation of the product as well as for repair of the roof waterproofing made from that and it is deposited with DIBt.

## 3 Performance of the product and references to the methods used for its assessment

### 3.1 Mechanical resistance and stability (BWR 1)

Not applicable

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

| Essential characteristic | Performance |
|---|---|
| External fire performance | See Annex A1 |
| Reaction to fire | See Annex A1 |

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

| Essential characteristic | Performance |
|---|---|
| Water vapour permeability | See Annex A1 |
| Watertightness | See Annex A1 |
| Release of dangerous substances | The product does not contain dangerous substances specified in TR 034 (Version April 2014) |
| Resistance to mechanical damage (perforation) | See Annex A1, Levels of use categories |
| Resistance to plant roofs | See Annex A1 |

### 3.4 Safety and accessibility in use (BWR 4)

| Essential characteristic | Performance |
|---|---|
| Resistance to wind loads | See Annex A1 |
| Slipperiness | See Annex A1 |

### 3.5 Protection against noise (BWR 5)

Not applicable

### 3.6 Energy economy and heat retention (BWR 6)

Not applicable

### 3.7 Sustainable use of natural resources (BWR 7)

For the sustainable use of natural resources no performance was investigated for this product.

### 3.8 General aspects

The verification of durability and serviceability is part of testing the essential characteristics. Durability and serviceability is only ensured if the specifications of intended use according to Annex B1 and the specifications of the technical file of the manufacturer are kept.

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

According to Decision of the Commission of 12 October 1998 (98/599/EC) (OJ L 287 of 24.10.1998, p. 30), as amended by Decision of the Commission of 8 January 2001 (2001/596/EC) (OJ L 209 of 02.08.2001, p. 33), the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 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 uses subject to external fire performance regulations | $B_{ROOF}$ (t1) | 3 |
| | For uses subject to reaction to fire | E | 3 |
| | All other roof waterproofing uses (all other characteristics) | — | 3 |

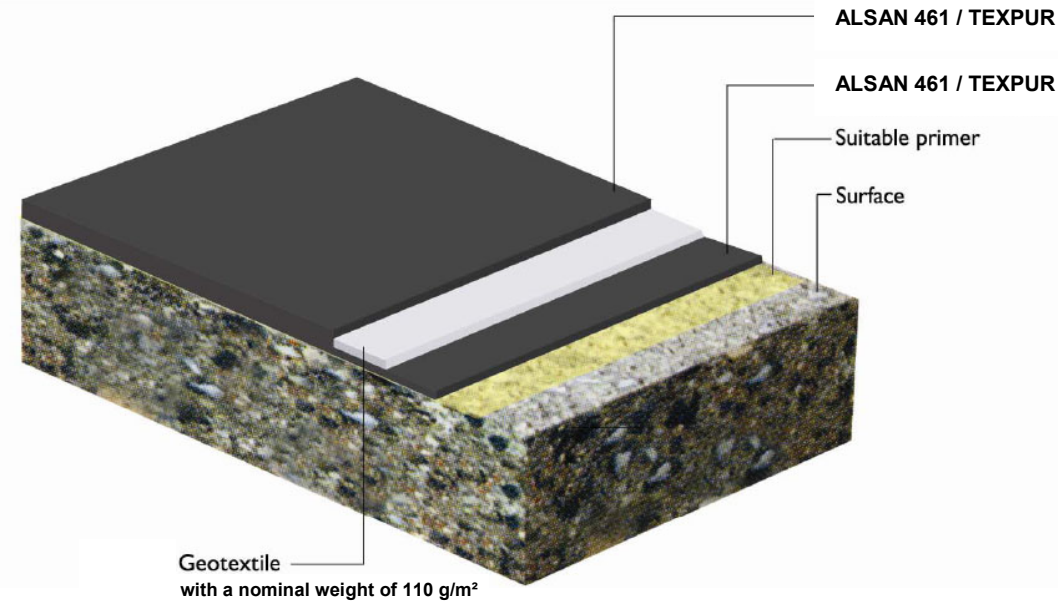
## 5 Technical details necessary for the implementation of the AVCP system, as provided for the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at Deutsches Institut für Bautechnik.

Issued in Berlin on 9 October 2014 by Deutsches Institut für Bautechnik

Dirk Brandenburger
Head of Section

*beglaubigt:*
Hemme




Applicable to the roof waterproofings "**ALSAN 461" / "TEXPUR"**

| | | | |
|---|---|---|---|
| Minimum layer thickness | | 1.6 mm | 2.9 mm |
| minimum quantity consumed: | | 2.4 kg/m² | 4.1 kg/m² |
| Levels of use categories according to ETAG 005 with relation to: | | | |
| Working life: | | W2 (10 years) | W3 (25 years) |
| Climatic zones | | M and S (moderate and severe climatic) | |
| Resistance to mechanical damage (perforation) (compressible and non-compressible substrates) | | P1 to P3 (from low to normal) | P1 to P4 (from low to high) |
| Roof slope | | S1 to S4 (from < 5° to > 30°) | |
| Lowest surface temperature | | TL3 (-20 °C) | TL4 (-30 °C) |
| Highest surface temperature | | TH4 (90 °C) | |
| Use category related to BWR 3: | | I/A 3, S/W 2 | |
| Performance of the product: | | | |
| External fire performance | EN 13501-5 | $F_{ROOF}$ | |
| Reaction to fire | EN 13501-1 | E | |
| Water vapour diffusion resistance factor μ | | μ ≈ 1830 | |
| Watertightness | | pass | |
| Statement on dangerous substances | | see section 3.3 | |
| Resistance to plant roots | | no performance determined | |
| Resistance to wind loads | | ≥ 50 kPa | |
| Resistance to slipperiness | | no performance determined | |

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| **ALSAN 461**<br>**TEXPUR** | Annex A1 |
| **System built up and classification** | |

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**Installation**

The levels of use categories and the performances of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel,
- installation of only those components which are marked components of the kit,
- installation with the required tools and adjuvants, e.g. "ALSAN 461" / "TEXPUR" for vertical and strong pitched areas,
- precautions during installation,
- inspecting the roof surface for cleanliness and correct preparation, if need be, applying a primer before applying the product,
- inspecting compliance with suitable weather and curing conditions,
- ensuring a thickness of the cured waterproofing of at least 1.6 mm respectively 2.9 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

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| **ALSAN 461**<br>**TEXPUR** | Annex B1 |
| **Intended use**<br>Specifications | |