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**European Technical Assessment Body
for construction products**



European Technical Assessment

**ETA-25/0582
of 18 June 2025**

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General Part

Technical Assessment Body issuing the
European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

8170 Alfa purSeal+ ETAG Flüssigabdichtung 2K LF

Product family
to which the construction product belongs

Liquid applied roof waterproofing on the basis of
polyurethane

Manufacturer

Alfa GmbH
Ferdinand-Porsche-Straße 10
73479 Ellwangen
GERMANY

Manufacturing plant

Werk 24, A

This European Technical Assessment
contains

8 pages including 3 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

EAD 030350-00-0402

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Specific part

1 Technical description of the product

The liquid applied roof waterproofing "8170 Alfa purSeal+ ETAG Flüssigabdichtung 2K LF" is a kit, which consists of the following components:

- Liquid applied waterproofing based on polyurethane (two-component).
- Polyester fleece as reinforcement.

As an assembled system these components form a homogeneous seamless roof waterproofing. The minimum layer thickness of the roof waterproofing applied (with the reinforcement) is 2.0 mm. 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 documents¹. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

The liquid applied roof waterproofing materials can be applied by pouring and/or brushing.

The liquid applied roof waterproofing "8170 Alfa purSeal+ ETAG Flüssigabdichtung 2K LF" does not contain any substances that are intended to inhibit or prevent root penetration (root protection agents)².

The components and the system build-up of the roof waterproofing are given in Annex A2.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The liquid applied roof waterproofing is used for the waterproofing of roof surfaces, terraces and balconies.

The product is suitable for compressible substrates (e. g., insulation boards) and non-compressible substrates (e. g., steel, concrete).

The product can be used for new roofs or for upgrading existing roof waterproofing. It can also be used on vertical surfaces (singular details).

The levels of use categories and the performance of the product are given in Annex A.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the liquid applied roof waterproofing of at least 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 B and the installation instructions of the manufacturer stated in the technical documents.

¹ The manufacturer's technical documents comprise 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.

² Manufacturer's statement.

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

3.1 Safety in case of fire (BWR 2)

| Essential characteristic | Performance |
|------------------------------------|---------------------|
| External fire performance of roofs | See Annex A1 and A2 |
| Reaction to fire | See Annex A1 |

3.2 Hygiene, health and the environment (BWR 3)

| Essential characteristic | Performance |
|--|-------------------------|
| Content, emission and/or release of dangerous substances | No performance assessed |
| Substance/s classified as EU-cat. Carc. 1A and/or 1B ^{a)} | |
| Substance/s classified as EU-cat. Muta. 1A and/or 1B ^{a)} | |
| Substance/s classified as EU-cat. Repr. 1A and/or 1B ^{a)} | |
| Release scenario regarding BWR 3: S/W 2 | |
| Resistance to water vapour | See Annex A1 |
| Watertightness | See Annex A1 |
| Resistance to wind loads | See Annex A1 |
| Resistance to mechanical damage (perforation) | See Annex A1 |
| Resistance to fatigue movement | See Annex A1 |
| Resistance to the effects of low and high surface temperature | See Annex A1 |
| Resistance to ageing media (heat and water) | See Annex A1 |
| Resistance to UV radiation in the presence of moisture (climatic zone) | See Annex A1 |
| Resistance to plant roots | See Annex A1 |
| Effects of variations in kit components and site practices | See Annex A1 |
| Effects of day joints | See Annex A1 |

^{a)} In accordance with Regulation (EC) No 1272/2008.

^{b)} Assessment based on the detailed manufacturer's statements.

3.3 Safety and accessibility in use (BWR 4)

| Essential characteristic | Performance |
|--------------------------|-------------------------|
| Slipperiness | No performance assessed |

3.4 General aspects

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

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

In accordance with EAD No. 030350-00-0402, the applicable European legal act is: 98/599/EC as amended by Commission Decision 2001/596/EC.

The system to be applied is: 3

In addition, with regard to external fire performance of roofs and reaction to fire for products covered by this EAD the system to be applied is: 3

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 AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 18 June 2025 by Deutsches Institut für Bautechnik

Bettina Hemme
Head of Section

beglaubigt:
Hannoun

| Description of the product | | | |
|---|---|--------------------------|---|
| Minimum thickness of the Waterproofing | | | 2.0 mm |
| Minimum quantity consumed: | | | 3.0 kg/m² |
| Roof slope | | | S1 to S4 (each slope) |
| Essential characteristics | | | Performance / Use category |
| External fire performance of roofs | | EN 13501-5 | Class B _{ROOF} (t1); B _{ROOF} (t2)* |
| Reaction to fire | | EN 13501-1 | Class E |
| Content, emission and/or release of dangerous substances | | | No performance assessed |
| Water vapour diffusion resistance factor | | | μ ≈ 3100 |
| Watertightness | | | Watertight |
| Resistance to wind loads (for tear resistant substrates) | | | ≥ 50 kPa |
| Resistance to mechanical damage (perforation) | for non-compressible substrates, e.g., concrete/steel | | P1 to P4 (from low to high/special) |
| | for compressible substrates, e.g., insulation boards | | P1 to P3 resp. P4** (from low to normal resp. to high/special) |
| Resistance to fatigue movement | | | W3 |
| Resistance to the effects of | low surface temperature | | TL4 (-30 °C) |
| | high surface temperature | | TH4 (+90 °C) |
| Working life according to the resistance to ageing media (heat and water) | | | W3 (25 years) |
| UV resistance in presence of moisture (climatic zone) | | | M and S (moderate and severe climates) |
| Resistance to plant roots | | | Root resistant |
| Effects of variations in kit components and site practices (application temperatures) | at +8 °C | Maximum tensile strength | ≈ 11.2 MPa |
| | | Elongation | ≈ 38.5 % |
| | | Dynamic indentation | P4 |
| | at +40 °C | Maximum tensile strength | ≈ 13.4 MPa |
| | | Elongation | ≈ 33.3 % |
| | | Dynamic indentation | P4 |
| Effects of day joints | | | > 20 kPa |
| Resistance to slipperiness | | | No performance assessed |

* For the classification of the external fire performance according EN 13501-5 see Annex A2.

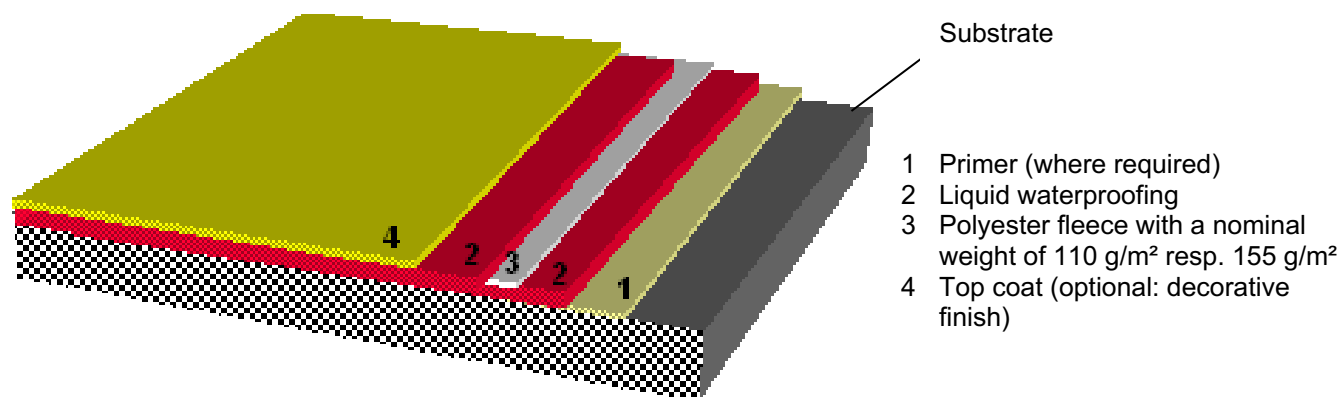
** P1 to P4 only with a polyester fleece with a nominal weight of 155 g/m².

| | | |
|---|--|----------|
| 8170 Alfa purSeal+ ETAG Flüssigabdichtung 2K LF Alfa GmbH | | Annex A1 |
| Description, levels of use categories and performances of the product | | |

* For the classification of the external fire performance according EN 13501-5 see Annex A2.

** P1 to P4 only with a polyester fleece with a nominal weight of 155 g/m².

System built-up:



External fire performance of the roof waterproofing

Class B_{ROOF} (t1)

The classification is valid for the following supporting decks:

- All roof pitches.
- Any non-combustible continuous deck with a minimum thickness of 10 mm.
- Any wooden continuous deck with a minimum thickness of 16 mm and with gaps not exceeding 0.5 mm.
- Any other roof systems for which classification documents for B_{ROOF} (t1) according EN 13501-5 are available.

Class B_{ROOF} (t2)

The classification is valid for the following supporting decks:

- All roof pitches.
- On any polyester reinforced thermoplastic waterproofing membrane with a thickness greater than 1,1 mm with a non-combustible substrate with density $\geq 125,5 \text{ kg/m}^3$.
- Any other roof systems for which classification documents for B_{ROOF} (t2) according EN 13501-5 are available.

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Alfa GmbH

System built-up /
External fire performance of roofs

Annex A2

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,
- precautions during installation,
- inspecting the surface for cleanliness and correct preparation, if need be, applying a primer before applying the product,
- inspecting compliance with suitable weather and curing conditions,
- finding out whether to the given ambient temperature the application with the adjustment for summer or winter is to be accomplished,
- ensuring a thickness of the waterproofing of at least 2.0 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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Intended use
Specifications for the installation

Annex B