



European Technical Assessment

**ETA-12/510
of 23/11/2015**

(English translation prepared by CSTB – Original version in French language)

GENERAL PART

Technical Assessment Body issuing the European Technical Assessment:

Centre Scientifique et Technique du Bâtiment (CSTB)

Trade name of the construction product:

ALSAN 770

Product family to which the construction product belongs:

Product Area Code: 03
Liquid applied roof waterproofing on the basis of flexible reactive polymethylmethacrylate

Manufacturer:

SOPREMA SAS
14, Rue de St Nazaire
BP 70215
67025 STRASBOURG CEDEX 1

Manufacturing plant(s):

SOPREMA SAS
14, Rue de St Nazaire
BP 70215
67025 STRASBOURG CEDEX 1

This European Technical Assessment contains:

7 pages including 1 Annex(es) 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:

European Technical Approval Guideline No 005 (ETAG 005), edition 2004, used as European Assessment Document (EAD)

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SPECIFIC PART

1. Technical description of the product

The liquid applied roof waterproofing "ALSAN 770" is a kit which consists of a two-component liquid synthetic material of flexible reactive polymethylmethacrylate, and reinforcement.

Application is made in 3 steps without drying time (wet on wet application) :

- One layer of "ALSAN 770" (1.5 kg/m²)
- One layer of reinforcement "ALSAN Voile P"
- One layer of "ALSAN 770" (1.0 kg/m²)

For an adequate adhesion of the waterproofing layer, the substrate may require a primer:

Admitted substrates	Primers
Concrete, mortar	ALSAN 170
Cement screed	
Ceramics tiles	
Steel, Stainless steel, copper	
Derivated wood panel : MDF, OSB	
SBS or APP bitumen waterproofing sheets with mineral protection	ALSAN 172

The resin "ALSAN 770" exist in a low temperature version (ALSAN 770 version hiver) and a thixotroped version (ALSAN 770 TX).

The resin "ALSAN 770" can receive an optional finition layer resistant to slipperiness coloured or transparent, spangles, bearing layer.

The kit "ALSAN 770" is UV resistant and directly accessible by pedestrians, usefull for green and garden roof, and inverted roof.

The minimum layer thickness of the roof waterproofing applied amounts to 2 mm.

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

The liquid applied roof waterproofing for the waterproofing of roof surfaces against penetration of atmospheric water.

The roof waterproofing shows certain levels of performance according to ETAG 005 which facilitates the use taking account of national requirements.

In the manufacturer's technical dossier (MTD) to this European technical assessment (ETA) the manufacturer gave information concerning the concrete substrate which the roof waterproofing is suitable for and on how these substrates shall be pre-treated.

The verifications which are based on this ETA give reason for the assumption of an intended working life of the roof waterproofing of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, but are regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works

3. Performances of the product and references to the methods used for their assessment

Performances of the liquid applied waterproofing kit, related to the basic requirements for construction works (hereinafter BWR), were determined according to the ETAG 005.

These performances, given in the following paragraphs, are valid as long as the components are the ones described in § 1 and Annexe 1 of this ETA.

3.1 Mechanical resistance and stability (BWR 1)

Not relevant.

3.2 Safety in case of fire (BWR 2)

Reaction to fire: E

External fire performance: Broof (t1)

3.3 Hygiene, health and the environment (BWR 3)

3.3.1 Water vapour permeability

Water vapour permeability factor (μ) is 5107.

3.3.2 Watertightness

Kit is watertight according to Technical Report EOTA TR 003.

3.3.3 Effects of highest and lowest surface temperatures

The resistance to mechanical damage is P4 at the lowest surface temperature TL4 et and the highest surface temperature TH4.

3.3.4 Resistance against ageing

Performance and tensile properties, after exposure W3 of accelerated ageing by heat, artificial weathering and accelerated ageing by hot water are kept.

3.3.5 Resistance to plant roots

No performance determined.

3.3.6 Release of dangerous substances

According to Technical Report EOTA n° 034, the product does not contain dangerous substance.

3.4 Safety and accessibility in use (BWR 4)

3.4.1 Resistance to wind load

Bond strength on concrete substrate is > 50kPa.

3.4.2 Resistance to slipperiness

No performance determined.

3.5 Protection against noise (BWR 5)

No performance determined.

3.6 Energy economy and heat retention (BWR 6)

No performance determined.

3.7 Sustainable use of natural resources (BWR 7)

No performance determined.

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

According to Decision 97/556/EC (Decision of the Commission of 14 July 1997, L 229 of 20.8.1997, p. 15), as amended by Decision 2001/596/EC (Decision of the Commission of 8 January 2001, L 209 of 2.8.2001, p. 33), the systems of AVCP given in the following table apply:

Product	Intended uses	Level or class	System
Liquid applied roof waterproofing kits	For all roof waterproofing uses	-	3

The systems of AVCP are described in Annex V of Regulation (EU) No 305/2011, as amended by Delegated Regulation (EU) No 568/2014.

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 at the CSTB.

Issued in Marne-la-Vallée on 23/11/2015

by

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Applicable to roof waterproofing "ALSAN 770":

Minimum layer thickness	2 mm
Minimum quantity consumed	2.5 kg/m ²
<u>Levels of use categories according to ETAG 005 with relation to :</u>	
Working life	W3
Climatic zones	S
Imposed loads	P4
Roof slope	S1 à S4
Lowest surface temperature	TL4
Highest surface temperature	TH4
<u>Performance du kit :</u>	
Resistance to spreading fire and radiant heat	Broof(t1)
Reaction to fire	class E
Water vapour diffusion resistance factor	$\mu \approx 5107$
Watertightness	Watertight
Statement on dangerous substances	Does not contain any
Resistance to plant roots	No performance determined
Resistance to wind loads	≥ 50 kPa on concrete substrate
Resistance to slipperiness	No performance determined

<p>Roof waterproofing "ALSAN 770" <i>Liquid applied roof waterproofing on the basis of flexible reactive polymethylmethacrylate</i></p>	<p>ANNEX 1 (1/3) of ETA-12/510</p>
<p>Characteristics of "ALSAN 770"</p>	

Installation

The fitness for use of the roof waterproofing can be assumed only, if the processing is carried out according to the processing instructions stated in the MTD by the manufacturer, in particular taking account of the following points:

- processing by appropriately trained personnel,
- processing of only those components which are a marked component of the kit "ALSAN 770",
- processing with the required tools and adjuvants,
- precautions during processing,
- inspecting the roof surface for cleanliness and correct preparation and applying the primer before applying the roof waterproofing,
- inspecting compliance with suitable weather and curing conditions,
- ensuring a thickness of the waterproofing of at least 2 mm by processing of appropriate minimum quantities of material,
- inspections during installation and of the finished roof waterproofing and documentation of the results.

<p>Roof waterproofing "ALSAN 770"</p> <p><i>Liquid applied roof waterproofing on the basis of flexible reactive polymethylmethacrylate</i></p>	<p>ANNEX 1 (2/3) of ETA-12/510</p>
<p>Intended use of "ALSAN 770"</p>	