## European Technical Assessment

**ETA-21/1016**

of 10/11/2021

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

### GENERAL PART

<table>
<thead>
<tr>
<th>Technical Assessment Body issuing the European Technical Assessment:</th>
<th>Centre Scientifique et Technique du Bâtiment (CSTB)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade name of the construction product:</td>
<td>BMI Sealoflex Protecta</td>
</tr>
<tr>
<td>Product family to which the construction product belongs:</td>
<td>Product Area Code: 03 Liquid applied roof waterproofing on the basis on water dispersive polymers</td>
</tr>
<tr>
<td>Manufacturer:</td>
<td>BMI Group Operations SARL 2b rue Albert Borschette L-1246, Luxembourg</td>
</tr>
<tr>
<td>Manufacturing plant(s):</td>
<td>Plant 1</td>
</tr>
<tr>
<td>This European Technical Assessment contains:</td>
<td>6 pages including 1 Annex(es) which form an integral part of this assessment</td>
</tr>
<tr>
<td>This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of:</td>
<td>European Assessment Document (EAD) No 030350-00-0402</td>
</tr>
</tbody>
</table>

*Only the French version is authentic.*

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SPECIFIC PART

1. Technical description of the product

The "BMI Sealoflex Protecta" liquid waterproofing system consists of a single-component, based on waterbased acrylic resin and a polyester reinforcement.

Once dry, it forms an elastic reinforced waterproofing membrane in complete adhesion to the substrate.

Sealoflex Protecta is applied as a fully reinforced system embedding a Reinforcing fabric between two layers of sealoflex waterproof coating : this process is referred to as "wet-on-wet".

1) Apply a coat of Sealoflex Protecta Waterproof Coating to the prepared substrate at approximately half of the total consumption rate.
2) Place the Sealoflex Protecta Reinforcing Fabric into the base coat making sure there are no creases in the fabric and that no air is trapped beneath it.
3) Apply more Sealoflex Protecta Waterproof Coating to the saturated fabric at approximately half of the total consumption rate.
4) Allow 12 to 24 hours to dry (depending on atmospheric conditions).

The applied thickness must be at least 1,3 mm and the amount of resin applied must be greater than or equal to 2.5 kg/m².

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 l'EAD 030350-00-0402which 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 10 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 EAD 030350-00-0402. 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: Not relevant.
External fire performance : Not relevant.

3.3 Hygiene, health and the environment (BWR 3)

3.3.1 Water vapour permeability
Water vapour permeability factor (µ) is 2 850.

3.3.2 Watertightness
Kit is watertight according to Technical Report EOTA 003.

3.3.3 Effects of highest and lowest surface temperatures
The resistance to mechanical damage is P2 at the lowest surface temperature TL4 and the highest surface temperature TH4 and P3 at the lowest surface temperature TL4 and the highest surface temperature TH3.

3.3.4 Resistance against ageing
Performance and tensile properties, after exposure W2 of accelerated ageing by heat, artificial weathering and accelerated ageing by hot water are kept.

3.3.5 Resistance to plant roots
Performance not assessed.

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 > 50 kPa.

3.4.2 Resistance to slipperiness
Performance not assessed.

3.5 Protection against noise (BWR 5)
Performance not assessed.

3.6 Energy economy and heat retention (BWR 6)
Performance not assessed.
3.7 Sustainable use of natural resources (BWR 7)

Performance not assessed.

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


<table>
<thead>
<tr>
<th>Product</th>
<th>Intended uses</th>
<th>Level or Class</th>
<th>System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Liquid applied roof waterproofing kits</td>
<td>For all roof waterproofing uses</td>
<td>-</td>
<td>3</td>
</tr>
</tbody>
</table>


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 01/06/2022 By

Aurélie BAREILLE
Division manager DEB/C2EB for CSTB
Applicable to roof waterproofing "BMI Sealoflex Protecta":

<table>
<thead>
<tr>
<th>Characteristics</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum layer thickness</td>
<td>1,3 mm</td>
</tr>
<tr>
<td>Minimum quantity consumed</td>
<td>2,5 kg/m²</td>
</tr>
<tr>
<td>Working life</td>
<td>W2</td>
</tr>
<tr>
<td>Climatic zones</td>
<td>S</td>
</tr>
<tr>
<td>Imposed loads</td>
<td>P2, P3</td>
</tr>
<tr>
<td>Roof slope</td>
<td>S1 à S4</td>
</tr>
<tr>
<td>Lowest surface temperature</td>
<td>TL4</td>
</tr>
<tr>
<td>Highest surface temperature</td>
<td>TH4, TH3</td>
</tr>
<tr>
<td>External fire performance</td>
<td>No performance assessed</td>
</tr>
<tr>
<td>Reaction to fire</td>
<td>No performance assessed</td>
</tr>
<tr>
<td>Water vapour diffusion resistance factor</td>
<td>$\mu = 2850$</td>
</tr>
<tr>
<td>Watertightness</td>
<td></td>
</tr>
<tr>
<td>Statement on dangerous substances</td>
<td>Does not contain any</td>
</tr>
<tr>
<td>Resistance to plant roots</td>
<td>No performance assessed</td>
</tr>
<tr>
<td>Resistance to wind loads</td>
<td>$\geq 50$ kPa on concrete substrate</td>
</tr>
<tr>
<td>Resistance to slipperiness</td>
<td>No performance assessed</td>
</tr>
</tbody>
</table>

Roof waterproofing "BMI Sealoflex Protecta"

Liquid applied roof waterproofing on the basis of acrylic resins

Characteristics of "BMI Sealoflex Protecta"

ANNEX 1 (1/2) of ETA-21/1016
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,
- 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 by processing of appropriate minimum quantities of material, of at least: 1.3 mm
- inspections during installation and of the finished roof waterproofing and documentation of the results.

Roof waterproofing ‘‘BMI Sealoflex Protecta’’

Liquid applied roof waterproofing on the basis of acrylic resins

Characteristics of ‘‘BMI Sealoflex Protecta’’

ANNEX 1 (1/2)

of ETA-21/1016