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## European Technical Assessment

**ETA-17/0859**  
of 30.03.2018

General part

**Technical Assessment Body issuing the European Technical Assessment**

Österreichisches Institut für Bautechnik (OIB)  
Austrian Institute of Construction Engineering

**Trade name of the construction product**

REVOPUR® WP 200

**Product family to which the construction product belongs**

Liquid applied roof waterproofing kit on the basis of 2-component polyurethane-hybrid

**Manufacturer**

REVOPUR GmbH  
Wörthstraße 9  
97318 Kitzingen  
Germany

**Manufacturing plant**

REVOPUR GmbH  
Wörthstraße 9  
97318 Kitzingen  
Germany

**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 (ETAG) Nr. 005 "Liquid applied roof waterproofing kits - Part 6: Specific stipulations for Kits based on Polyurethane", used as European Assessment Document (EAD)

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the kits falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions).

In order to meet the provisions of the EU Construction Products Directive, these requirements need also to be complied with, when and where they apply.

The ETA will contain the generic specification of the other components of the assembled system, which are not part of the kit.

## Specific part

### 1. Technical description of the product

“REVOPUR® WP 200” is a 2-component liquid applied roof waterproofing kit on the basis of polyurethane. This kit comprising components, which are factory-produced by the manufacturer or component suppliers. The ETA holder is ultimately responsible for all components of the liquid applied roof waterproofing kit specified in this ETA.

#### 1.1 Definition of the construction product

The liquid applied roof waterproofing kit “REVOPUR® WP 200” consists the components:

- liquid applied roof waterproofing on the basis of polyurethane (two-component)
- polyester fleece as reinforcement

Depending on the substrate’s type to achieve an adequate adhesion of the waterproofing layer a primer is required. In general the primer belonging to the substrate is given in the manufacturer technical literature. If necessary the manufacturer has to provide guidance which kind of pretreatment or primer is required.

As an assembled system these components form a homogeneous seamless roof waterproofing with a minimum layer thickness of the roof waterproofing of 1,7 mm.

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

#### 2.1 Intended use

The intended use of this product is the waterproofing of roof surfaces against penetration of atmospheric water.

“REVOPUR® WP 200” is suitable for compressible substrates (e.g. insulation boards) and non compressible substrates (e.g. steel, concrete). In the manufacturer's technical literature to this European Technical Assessment the manufacturer has to give any information concerning the suitable substrates and how these substrates shall be pre-treated.

Detailed information of the use categories-levels are shown in Annex 2. The levels of use categories and performances given in this ETA 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.

## 2.2 Working life

This European Technical Assessment, based on the provisions, test and assessment methods in the guideline ETAG-005 used as EAD, have been written based upon the assumed intended working life of the liquid applied roof waterproofing kit for the intended use of 25 years, provided that the Kit is subject to appropriate use and maintenance. 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.

## 2.3 General assumptions

For evaluating “REVOPUR® WP 200” it is assumed that

- The building shall be sufficiently structurally sound to carry the additional imposed load exerted by the assembled system,
- Roofs shall be properly designed with adequate falls/drainage,
- Regular maintenance of the roof shall be conducted

## 2.4 Manufacturing

The European Technical Assessment is issued for “REVOPUR® WP 200” on the basis of agreed data/information, deposited with the Österreichisches Institut für Bautechnik, which identifies the product/kit that has been assessed and judged. Changes to the product/kit or production process, which could result in this deposited data/information being incorrect, should be notified to the Österreichisches Institut für Bautechnik before the changes are introduced.

The Österreichisches Institut für Bautechnik will decide whether or not such changes affect the European Technical Assessment and consequently the validity of the CE marking on the basis of the European Technical Assessment and if so whether further Assessment or alterations to the European Technical Assessment, shall be necessary.

## 2.5 Installation

The fitness for use of the roof waterproofing can be assumed only, if the installation is carried out according to the installation instructions 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 required tools and adjuvants for details as upstands, corners, connections etc.
- 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,
- finding out whether to the given ambient temperature the application with the adjustment has to be accomplished,
- ensuring a thickness of the waterproofing of at least 1,7 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

“REVOPUR® WP 200” shall be installed and used in accordance with the technical product literature of the manufacturer.

The information as to the method of repair on site and handling of waste products shall be observed.

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

| Basic requirements for construction works | Characteristics                      |
|---|--------------------------------------|
| BWR 2                                     | Safety in case of fire               |
| BWR 3                                     | Hygiene, health and environment      |
| BWR 4                                     | Safety and accessibility in use      |
| BWR 7                                     | Sustainable use of natural resources |

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

##### 3.1.1 Reaction to fire

According to EN 13501-1:2010 the waterproofing kit fulfils the requirements for reaction to fire class E.

##### 3.1.2 External fire performance

According to the Annex of Commission Decision 2000/553/EC the assembled system is tested in accordance with ENV 1187 to the appropriate test method for the corresponding external performance roof class and is classified B<sub>Roof</sub> (t1) according to EN 13501-5.

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

##### 3.2.1 Water vapour permeability

Water vapour permeability factor ( $\mu$ ): 3694

##### 3.2.2 Watertightness

According to Technical Report EOTA TR 003 the assessed kit is watertight.

##### 3.2.3 Effects of highest and lowest surface temperatures

Lowest surface temperature: TL4 (- 30 °C)  
Highest surface temperature: TH4 (90 °C)

##### 3.2.4 Resistance against ageing

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

##### 3.2.5 Resistance to plant roots

No performance assessed.

##### 3.2.6 Release of dangerous substances

According to the manufacturer's declaration "REVOPUR® WP 200" does not contain dangerous substances detailed in Council Directive 67/548/EEC and Regulation (EC) no 1272/2008 as well as EOTA TR 034 (General ER 3 Checklist for ETAGs/CUAPs/ETAs- Content and/or release of dangerous substances in products/kits), edition March 2012.

A written declaration in this respect was submitted by the ETA-holder.

In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the Construction Products Regulation, these requirements need also to be complied with, when and where they apply.

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

#### 3.3.1 Resistance to wind load

Bond strength on concrete substrate is > 50 kPa  
 Bond strength on galvanized steel is > 50 kPa  
 Bond strength on PU insulation board is > 50 kPa  
 Bond strength on wooden substrate is > 50 kPa  
 Bond strength on bitumen sheets is > 50 kPa

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

No performance assessed.

## 4 ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (HEREINAFTER AVCP) SYSTEM APPLIED, WITH REFERENCE TO ITS LEGAL BASE

### 4.1 AVCP system

According to Decision of the Commission of 12 Oct 1998 (98/599/EC) (OJ L 287 of 24.10.98, 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 § 2 to Regulation (EU) No 305/2011) given in the following table applies.

| Products                               | Intended uses                   | Level or Class | System   |
|--|---------------------------------|----------------|----------|
| Liquid applied roof waterproofing kits | For all roof waterproofing uses | Any            | System 3 |

## 5 TECHNICAL DETAILS NECESSARY FOR THE IMPLEMENTATION OF THE AVCP SYSTEM, AS PROVIDED FOR IN THE APPLICABLE EAD

At the manufacturing plant, the manufacturer has to implement and continuously maintain a factory production control system.

All elements, requirements and provisions adopted by the manufacturer in this respect are documented in a systematic manner in the form of written policies and procedures.

The records shall be kept at least for ten years and presented to Österreichisches Institut für Bautechnik on request.

The factory production control system ensures that the performance of the product is in conformity with the European Technical Assessment. If test results are unsatisfactory, the manufacturer shall immediately implement measures to eliminate the defects. Construction products not in conformity with the requirements shall not be CE marked.

Technical details of the actions to be undertaken by the manufacturer in relation to the factory production control are laid down in the control plan deposited at Österreichisches Institut für Bautechnik.

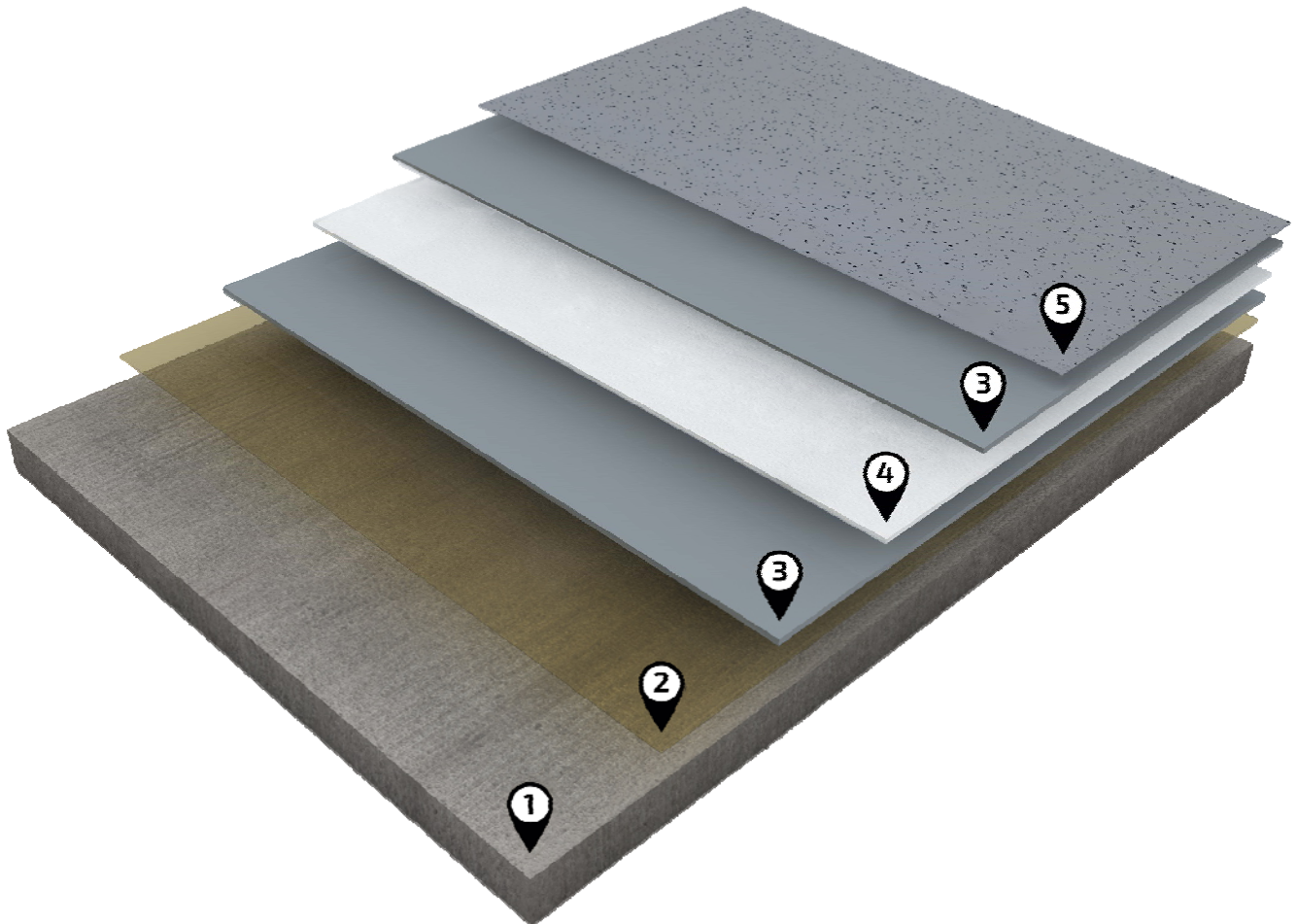
When all criteria of the assessment and verification of constancy of performance are met, the manufacturer shall issue a declaration of performance.

Issued in Vienna on 30.03.2018  
 by Österreichisches Institut für Bautechnik

The original document is signed by:

Rainer Mikulits  
 Managing Director

**ANNEX 1**  
**Schematic detail of the product**



- 1 substrate
- 2 primer (if required)
- 3 liquid applied roof waterproofing REVOPUR® WP 200
- 4 polyester fleece
- 5 coloured top-coating (optional, according to technical literature of manufacturer)

## ANNEX 2

### Characteristics of the product

|                           |                       |
|---------------------------|-----------------------|
| Minimum layer thickness   | 1,7 mm                |
| Minimum quantity consumed | 2,5 kg/m <sup>2</sup> |

#### Levels of use categories according to ETAG 005 with relation to :

|                             |  |
|-----------------------------|--|
| Working life                | W3 (25 years)  |
| Climatic zones              | M and S (moderate and severe climate)                  |
| Imposed loads               | P1 to P4 (non-compressible and compressible substrate) |
| Roof slope                  | S1 to S4   |
| Lowest surface temperature  | TL4 (-30 °C)   |
| Highest surface temperature | TH4 (90 °C)  |
| Climatic zones              | M and S  |

#### Performance of the kit :

|  |  |
|--|--|
| Reaction to fire                         | class E (EN 13501-1)   |
| External fire performance                | B <sub>roof</sub> (t1) (EN 13501-5)  |
|  | Note: for valid substrate see technical literature of the manufacturer   |
| Water vapour diffusion resistance factor | $\mu \approx 3694$   |
| Watertightness                           | watertight   |
| Statement on dangerous substances        | does not contain any   |
| Resistance to plant roots                | No performance assessed  |
| Resistance to wind loads                 | $\geq 50$ kPa (on concrete substrate, galvanized steel, PU insulation board, wooden substrate, bitumen sheets) |
| Resistance to slipperiness               | No performance assessed  |