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European Technical Assessment

ETA-16/0812
of 02.01.2026

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

Roof waterproofing "Wecryl R 230"
Roof waterproofing "Wecryl R 230 thix"
Roof waterproofing "Wecryl R 230 thix HT"
Roof waterproofing "Wecryl R 230 TT"
Roof waterproofing "Wecryl R 230 spritzbar"

Product family to which the construction product belongs

Liquid-applied roof waterproofing using kits based on polymethylmethacrylate

Manufacturer

WestWood Kunststofftechnik GmbH
An der Wandlung 20
32469 Petershagen-Lahde
GERMANY

Manufacturing plant

WestWood Kunststofftechnik GmbH
An der Wandlung 20
32469 Petershagen-Lahde
GERMANY

This European Technical Assessment contains

8 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

European Assessment document (EAD)
030350-00-0402 for Liquid applied roof waterproofing kits

This European Technical Assessment replaces

European Technical Assessment ETA-16/0812
of 16.12.2016

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.

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Specific part

1. Technical description of the product

The liquid applied Roof waterproofing "Wecryl R 230", Roof waterproofing "Wecryl R 230 thix", Roof waterproofing "Wecryl R 230 thix HT", Roof waterproofing "Wecryl R 230 TT", Roof waterproofing "Wecryl R 230 spritzbar" are liquid applied roof waterproofing kits on the basis of two-component reactive polymethylmethacrylate (PMMA).

These kits consist following components:

- liquid applied roof waterproofing on the basis of a two-component reactive polymethylmethacrylate (PMMA)
- polyester fleece (perforated and non-perforated as reinforcement with a nominal weight of 110 g/m²)

The kits are specified with a minimum layer thickness of 1,7 mm and a minimum quantity consumed of 2,5 kg/m².

These kits comprising components, which are factory-produced by the manufacturer or component suppliers. The ETA holder is ultimately responsible for all components specified in this ETA. As an assembled system these components form a homogeneous seamless roof waterproofing. Further details and a build-up of the kit is given in Annex A.

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

The primers "Wecryl 176" and "Wecryl 122" on the basis of reactive polymethylmethacrylate are used in addition for mineral substrates, such as concrete, mortar or screed.

The primers "Wecryl 112[MW1.1]" and "Wecryl 110" on the basis of reactive polymethylmethacrylate are used in addition for the substrate asphalt and hot and cold asphalt.

"Wecryl R 230 thix" is the thixotropic variation for applications on details, such as upstands, corners, connections, etc.

"Wecryl R 230 thix HT" is the thixotropic variation for applications on details at high temperatures, such as upstands, corners, connections, etc.

"Wecryl R 230 TT" is a variation with a shorter curing time for applications at low temperatures.

"Wecryl R 230 spritzbar" is a sprayable variation, specifically for spray application with airless spray pumps.

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

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

In the manufacturer's technical literature to this European Technical Assessment the manufacturer has to give any information concerning the suitable substrates and if necessary, how these substrates shall be pre-treated.

Detailed information of the use categories-levels is shown in Annex B. 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.

This European Technical Assessment, based on the provisions, test and assessment methods in EAD 030350-00-0402 have been written based upon the assumed intended working life of the kit for the intended use 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.

The levels of use categories and the performances of the kit 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 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 2,5 mm by processing appropriate minimum quantities of material,
- inspections during installation and of the finished product and documentation of the results.

Roof waterproofing "Wecryl R 230", Roof waterproofing "Wecryl R 230 thix", Roof waterproofing "Wecryl R 230 thix HT", Roof waterproofing "Wecryl R 230 TT", Roof waterproofing "Wecryl R 230 spritzbar" 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

3.1 Safety in case of fire (BWR 2)

3.1.1 Reaction to fire

According to EN 13501-1 Roof waterproofing "Wecryl R 230", Roof waterproofing "Wecryl R 230 thix", Roof waterproofing "Wecryl R 230 thix HT", Roof waterproofing "Wecryl R 230 TT", Roof waterproofing "Wecryl R 230 spritzbar" fulfils the requirements for reaction to fire class E.

3.1.2 External fire performance of roofs

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

3.2 Hygiene, health and environment (BWR 3)

3.2.1 Content, emission and/or release of dangerous substances

According to with Regulation (EC) No 1272/2008 regarding to CMR-Substances this product does not contain any dangerous substances, which are classified as EU-cat. Carc. 1A and/or 1B, classified as EU-cat. Muta. 1A and/or 1B and classified as EU-cat. Repr. 1A and/or 1B. The assessment is in accordance to detailed datas given by the ETA-holder. Regarding to BWR 3 the release scenario is classified S/W 2.

3.2.2 Resistance to water vapour

Water vapour diffusion resistance factor (μ): 4.330

3.2.3 Watertightness

The assessed kits are watertight.

3.2.4 Resistance to wind loads

Bond strength on tear resistant substrates is > 50 kPa
Reinforcement 110 g/m² on concrete substrate

3.2.5 Resistance to mechanical damage (perforation)

P1 to P4 (non-compressible and compressible substrate)

3.2.6 Resistance to fatigue movement

The categorisation of expected working life is W3

3.2.7 Resistance to the effects of low and high surface temperatures

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

3.2.8 Resistance to ageing media (heat and water)

Performance and tensile properties, after exposure W3 in M and S (moderate and severe climate) of accelerated ageing by heat, artificial weathering and accelerated ageing by hot water are kept.

3.2.9 Resistance to UV radiation in the presence of moisture

Categorisation of Climatic zones is M and S (moderate and severe climate)

3.2.10 Resistance to plant roots

According to EN 13948 the product is resistant to plant roots.

3.2.11 Effects of variations in kit components and site practices

No performance assessed

3.2.12 Effects of day joints

No performance assessed

3.3 Safety and accessibility in use (BWR 4)

3.3.2 Slipperiness

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 uses subject to external fire performance regulations	-	System 3
	For uses subject to reaction to fire	E	System 3
	All other characteristics	-	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.

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. 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.

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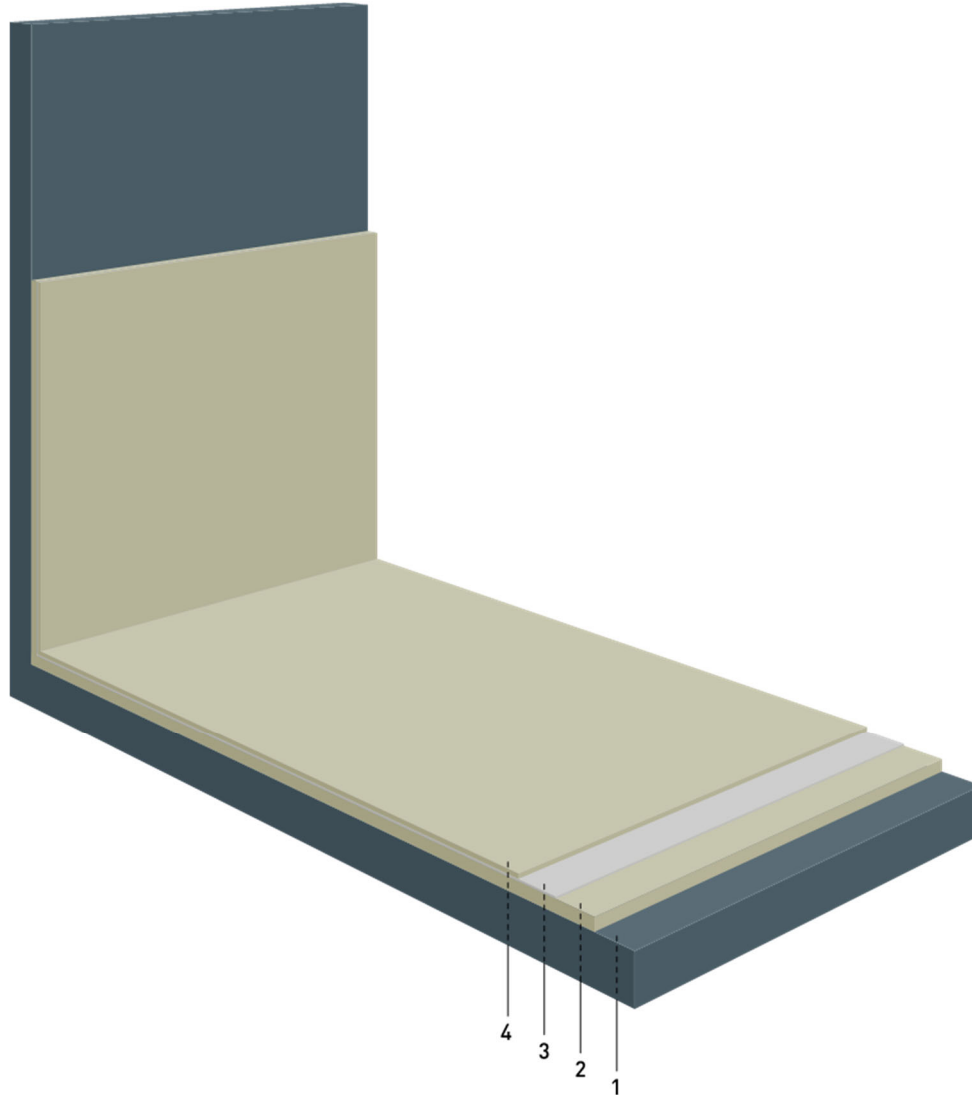
The original document is signed by

Thomas Rockenschaub
Managing Director

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ANNEX A

Schematic detail of the product and general aspects



- 1 Substrate (with primer, if required)
- 2 Wecryl R 230 / Wecryl R 230 thix / Wecryl R 230 thix HT / Wecryl R 230 TT / Wecryl R 230 spritzbar
- 3 Polyester fleece layer (nominal weight 110 g/m²)
- 4 Wecryl R 230 / Wecryl R 230 thix / Wecryl R 230 thix HT / Wecryl R 230 TT / Wecryl R 230 spritzbar

General aspects

The verification of durability and serviceability is part of testing of the essential characteristics.

Durability and serviceability is only ensured if the specifications of intended use according to the ETA and the specifications of the technical literature of the manufacturer are kept.

ANNEX B

Performance of the product:

Summary of the tested basic working requirements (BWR) according to EAD 030350-00-0402:

External fire performance of roofs:	B _{roof} (t1) (EN 13501-5)
Reaction to fire:	class E (EN 13501-1)
Content, emission and/or release of dangerous substances:	No content (release scenario S/W 2)
Resistance to water vapour:	water vapour diffusion resistance factor (μ): 4.330
Watertightness:	watertight.
Resistance to wind loads:	Bond strength > 50 kPa, Reinforcement 110 g/m ² on concrete substrate
Resistance to mechanical damage (perforation):	P1 to P4 (non-compressible and compressible substrate)
Resistance to fatigue movement:	expected working life is W3
Resistance to the effects of low and high surface temperatures:	Lowest surface temperature TL4 (- 30 °C) Highest surface temperature TH4 (+90 °C)
Resistance to ageing media (heat and water):	W3 in M and S (moderate and severe climate)
Resistance to UV radiation in the presence of moisture (Climatic zones):	M and S (moderate and severe climate)
Resistance to plant roots:	resistant according to EN 13948