



Approval body for construction products and types of construction

#### **Bautechnisches Prüfamt**

An institution established by the Federal and Laender Governments



## **European Technical** Assessment

## ETA-04/0021 of 4 June 2018

English translation prepared by DIBt - Original version in German language

#### **General Part**

Technical Assessment Body issuing the Deutsches Institut für Bautechnik **European Technical Assessment:** Roof waterproofing "ENKRYL" Trade name of the construction product Product family Liquid applied roof waterproofing on the basis of water to which the construction product belongs dispersible polymers Manufacturer **ENKE-WERK** Johannes Enke GmbH & Co. KG Hamburger Straße 16 40221 Düsseldorf Manufacturing plant **ENKE-Werk** Johannes Enke GmbH & Co. KG Hamburger Str. 16 40221 Düsseldorf This European Technical Assessment 6 pages including 2 annexes which form an integral part contains of this assessment This European Technical Assessment is ETAG 005 Part 8: "Specific stipulations for kits based on water dispersible polymers", issued in accordance with Regulation (EU) No 305/2011, on the basis of used as EAD according to Article 66 Paragraph 3 of Regulation (EU) No 305/2011. ETA-04/0021 issued on 21 June 2013 This version replaces

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#### Specific part

#### 1 Technical description of the product

The liquid applied roof waterproofing "ENKRYL" is a kit, which consists of the components:

- Primer, depending on the type of substrate
- liquid applied roof waterproofing on the basis of a pure acrylate dispersion
- polyester fleece as reinforcement

For an adequate adhesion of the waterproofing layer – depending on the type of substrate – a primer on the basis of an acrylate polymer dispersion or a vinyl chlorine copolymer is required. In general the primer belonging to the substrate is given in the manufacturer technical documents<sup>1</sup>. In single cases the manufacturer is responsible to give guidance which pretreatment/primer is required.

The minimum layer thickness of the roof waterproofing applied is 1.7 mm.

As an assembled system these components form a homogeneous seamless roof waterproofing.

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

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

The product is used for the waterproofing of roof surfaces against penetration of atmospheric water.

The product is suitable for compressible substrates (e.g. insulation boards with or without bitumen sheeting) and non-compressible substrates (e.g. steel, concrete).

In the technical file the manufacturer give information concerning the substrates which the product is suitable for and on how these substrates shall be pre-treated.

The levels of use categories 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.

#### 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	See Annex A
Reaction to fire	See Annex A

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electronic copy of the eta by dibt: eta-04/002

The manufacturer's technical documents comprises 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.



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

Essential characteristic	Performance
Water vapour permeability	See Annex A
Watertightness	See Annex A
Release of dangerous substances	no performance assessed
Resistance to mechanical damage (perforation)	See Annex A
Resistance to plant roofs	See Annex A

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

E	ssential characteristic	Performance
R	esistance to wind loads	See Annex A
SI	lipperiness	See Annex A

#### 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 file 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 ETAG 005 used as EAD, the applicable European legal act is: 98/599/EC.

The system to be applied is: 3

In addition, with regard to e. g. reaction to fire for products covered by this ETAG the applicable European legal act is: 2001/596/EC

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 4 June 2018 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow Head of Department *beglaubigt:* Hannoun

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mer (if necessary) uid synthetic material lyester fleece layer with at st a weight of 110g/m <sup>2</sup>
1.7 mm
3.4 kg/m <sup>2</sup>
W3 (25 years)
derate and severe climatic)
P1 to P4
ressible substrates, e.g. foam d with bitumen sheeting and pressible substrate, e.g. concrete/steel P1
le substrate, e.g. foam plate
to S4 (each slope)
TL4 (-30 °C)
TH4 (90 °C)
S/W 2
B <sub>ROOF</sub> (t1)*
F
μ ≈ 2370
watertight
rformance assessed
rformance assessed
≥ 50 kPa
rformance assessed
ss ≥ 50 mm, density ≥ 20 kg/m <sup>3</sup> se sheet with fiberglass fleece (t1) according EN 13501-5 are
Annex A

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#### 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 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,
- ensuring a thickness of the cured 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.

Intended use Specifications Annex B