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Authorised and notified
according to Article 29 of the
Regulation (EU)
No 305/2011 of the European
Parliament and of the Council
of 9 March 2011

MEMBER OF EOTA



European Technical Assessment ETA-20/0911 of 2021/02/10

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

IKO tanetech R-EC/UV

Product family to which the above construction product belongs:

Liquid applied roof waterproofing

Manufacturer:

IKO NV
D'Herbouvillekaai 80
BE-2020 Antwerpen

Manufacturing plant:

IKO NV
D'Herbouvillekaai 80
BE-2020 Antwerpen

This European Technical Assessment contains:

6 pages including 1 annex which form an integral part of the document

This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:

European Assessment document (EAD) no. European Assessment Document EAD 030350-00-0402 for Liquid applied roof waterproofing kits

This version replaces:

The ETA with the same number issued on 2020-12-07

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

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1 Technical description of the product

1.1 IKO tanetech R-EC/UV is a roof waterproofing kit consisting of single-component, moisture-cured, polyurethane resins, and glass mat reinforcing scrim. As an assembled system, the kit forms a homogeneous roof waterproofing. The kit is used to produce a system to a minimum specification of:

- first coat — IKO tanetech R-EC applied at a minimum rate of $1.5 \text{ l}\cdot\text{m}^{-2}$
- IKO glass Fleece 225 — glass fibre reinforcement matting with a nominal weight of $225 \text{ g}\cdot\text{m}^{-2}$ embedded in the IKO tanetech R-EC
- topcoat — IKO tanetech R-UV applied at a minimum rate of $1.0 \text{ l}\cdot\text{m}^{-2}$
- IKO tanetech Concrete Primer — for use on porous substrates
- IKO tanetech Bitumen Primer – for use on non-porous substrates.

1.2 The minimum total thickness of the system must be 2.0 mm.

1.3 The kit has been assessed for use on substrates of:

- concrete (non-compressible substrate)
- mineralised bitumen roofing felt (compressible substrate).

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

The kit is for use as a liquid-applied roof waterproofing to resist the passage of water to the building's internal structure, where Essential Requirements 2 *Safety in the case of fire*, 3 *Hygiene, health and the environment* and 4 *Safety in use*, including the aspect of durability, apply.

The provisions made in this European Technical Assessment are based on an assumed working life for the roof of 25 years. The indications given in the working life cannot be interpreted as a guarantee given by the producer or the Technical Assessment Body, 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.

3 Performance of the product and references to the methods used for its assessment

3.1 Safety in case of fire (BWR 2)

Characteristic	Classification
External fire performance	See Annex A
Reaction to fire	See Annex A

3.2 Health, hygiene, and the environment (BWR 3)

Characteristic	Category
Resistance to water vapour	See Annex A
Watertightness	See Annex A
Resistance to wind loads	See Annex A
Resistance to dynamic indentation	See Annex A
Resistance to static indentation	See Annex A
Resistance to fatigue movements	See Annex A
Effect of low surface temperatures	See Annex A
Extreme low temperatures	See Annex A
Effects of high surface temperature	See Annex A
Resistance to heat ageing	See Annex A
UV radiation in the presence of water	See Annex A
Resistance to water ageing	See Annex A
Root resistance	No performance assessed
Content and/or release of dangerous substances ⁽¹⁾	No performance assessed

3.3 Safety in use (BWR4)

Characteristic	Category
Resistance to wind loads	See Annex A
Resistance to water ageing	See Annex A
Slipperiness	No performance assessed

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

According to Decision 98/599/EC of the European Commission⁽¹⁾ and amended by Decision 2001/596/EC of the European Commission⁽²⁾, the AVCP system (see Annex V to Regulation (EU) No 305/2011) given in the following table applies.

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

(1) Official Journal of the European Communities L 287 of 24.10.1998.

(2) Official Journal of the European Communities L 209 of 02.08.2001.

5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD.

5.1 Tasks of the Manufacturer

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark A/S prior to CE marking.

Issued in Copenhagen on 2021-02-10 by



Thomas Bruun

Managing Director, ETA-Danmark A/S

ANNEX A CATEGORISATION OF LEVELS OF PERFORMANCE OF IKO TANETECH R-EC/UV

The kit has the following characteristics:

- watertightness (1 m) — Pass
- water vapour resistance factor (μ) — 3939
- water vapour diffusion – equivalent air layer thickness (S_d) — 8.0
- resistance to wind loads — >50 kPa
- minimum assembled kit thickness — 2.0 mm.

The categorisation of levels of performance in accordance with EAD 030350-00-0402 are:

- External fire performance
 - $B_{ROOF}(t1)^{(1)}$
 - $B_{ROOF}(t4)^{(2)}$
- Reaction to fire — Euroclass E_{fi}
- Categorisation by working life — W3
- Categorisation by climatic zones — M
- Categorisation by imposed loads — P2
- Categorisation by roof slope — S1 to S4
- Categorisation by surface temperature
 - lowest — TL4
 - highest — TH4
- Statement on dangerous substances — No performance assessed
- Root resistance — No performance assessed
- Slipperiness — No performance assessed

(1) System comprising 2040 g·m⁻² IKO tanetech R-EC, IKO glass Fleece 225 and 1320 g·m⁻² IKO tanetech R-UV applied to wood particle board with gaps ≤ 0.5 mm.

(2) System comprising 2060 g·m⁻² IKO tanetech R-EC (black), IKO glass Fleece 225 and 1320 g·m⁻² IKO tanetech R-UV (dark grey) applied to 16 mm wood particle board.