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VE DENEY HİZMETLERİ TİC. LTD.
ŞTİ.
Çamlıca Mah. (Timko Eti) Anadolu
Blv.No:20-R Blok No:4
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European Technical Assessment

ETA-24/1259
of (21.01.2025)

Technical Assessment Body issuing the European Technical Assessment: CPC
Belgelendirme Muayene ve Deney Hizmetleri Tic. Ltd. Şti.

**Trade name of the construction
product**

KOSTER KB Pur 222

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

Product Area Code: 03

Manufacturer

KÖSTER YAPI KİM. İNŞ. SAN. VE TİC. A.Ş.

Gebkim Kimya İhtisas O.S.B. Atatürk Bulvarı No:6
Dilovası 41455 Kocaeli / Turkey

Manufacturing plant(s)

KÖSTER YAPI KİM. İNŞ. SAN. VE TİC. A.Ş.

**This European Technican
Assessment contains**

9 pages including 2 Annexes which forms an integral
part of this assessment

Annex may contain confidential information and is/are
not included in the European Technical Assessment
when that assessment is publicly disseminated

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

EAD 030350-00-0402

Liquid applied roof waterproofing kits

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1. Technical description of the product

This evaluation report details the assessment of properties relevant to the intended application of the "Liquid Applied Roof Waterproofing Kit" (LARWK), which includes:

1. Primer (if required) – *KOSTER KB Pox 002 or KOSTER KB Pox 008
2. Waterproofing membrane "KOSTER KB Pur 222" based on a two-component, polyurethane for waterproofing layers on roofs, manufactured by KÖSTER Yapı Kim. İns. San. ve Tic. A.Ş.

To ensure optimal adhesion of the waterproofing layer, the use of a primer is crucial, with the specific type determined by the substrate's characteristics. Manufacturers generally specify the recommended primer for each substrate in their technical documentation. In exceptional cases, however, it is the manufacturer's responsibility to provide guidance on the appropriate pre-treatment or primer required.

The roof waterproofing membrane must have a minimum applied layer thickness of 1.58 mm to ensure sufficient performance.

When combined, these components integrate to create a uniform and seamless roof waterproofing system.

Comprehensive details about the components and system configuration of the roof waterproofing kit "KOSTER KB Pur 222" are provided in Annex A.

*KOSTER KB Pox 002 has been utilized for testing.

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

The product is used to waterproof roof surfaces against atmospheric water penetration. The technical file includes information from the manufacturer on suitable substrates and the required pre-treatment procedures for each substrate type. The categorization levels for product application are outlined in Annex A.

The verification and assessment underpinning this European Technical Assessment indicate a product lifespan of at least 25 years. It is important to emphasize that this indication of lifespan is not a guarantee from the manufacturer but serves as a guideline for selecting suitable products based on the project's economically reasonable service life.

The categorization levels and performance metrics outlined in Section 3 are applicable only when the liquid applied roof waterproofing is used in accordance with the specifications and conditions outlined in Annex B and the manufacturer's installation guidelines provided in the technical file.

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

3.1 Mechanical resistance and stability (BWR 1)

Not applicable

3.2 Safety in case of fire (BWR 2)

Essential characteristic	Performance
External fire performance	See Annex A
Reaction to fire	See Annex A

3.3 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 determined
Resistance to mechanical damage (perforation)	See Annex A, use categories
Resistance to plant roots	See Annex A

3.4 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Resistance to wind loads	See Annex A
Slipperiness	See Annex A

3.5 Protection against noise (BWR 5)

Not applicable

3.6 Energy economy and heat retention (BWR 6)

Not applicable

3.7 Sustainable use of natural resources (BWR 7)

No performance assessed in this regard.

3.8 General aspects

Testing for essential characteristics includes the critical evaluation of durability and serviceability. However, it is important to emphasize that achieving durability and serviceability depends on strict compliance with the intended use specifications outlined in Annex B and the detailed guidelines provided in the manufacturer's technical file.

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

In accordance with the Decision of the Commission of 12 October 1998 (98/599/EC) (OJ L 287, 24.10.1998, p.30), as amended by the Decision of the Commission of 8 January 2001 (2001/596/EC) (OJ L 209, 02.08.2001, p.33), the system for assessment and verification of constancy of performance (refer to Annex V and Article 65, Paragraph 2 of Regulation (EU) No 305/2011) outlined in the following table applies.

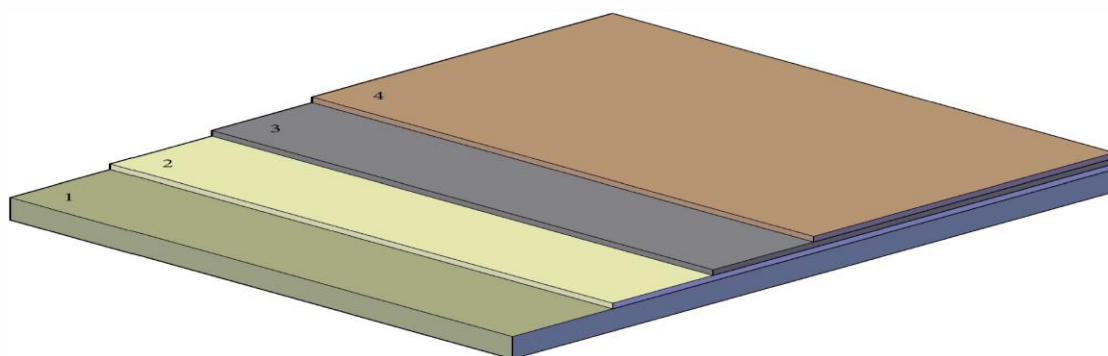
Product	Intended uses(s)	Level or class	System
Liquid applied roof waterproofing kits	For uses subject to external fire performance regulations	B _{ROOF} (t1)	3
	For uses subject to reaction to fire	E	
	All other roof waterproofing uses all other characteristics	-	

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

The technical details required for implementing the AVCP system are specified in the control plan maintained by the Technical Assessment Body. The notified product certification body must conduct at least one annual visit to the factory to monitor the manufacturer.

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by
UĞUR GEDİK

Annex A



- 1: Substrate
- 2: Primer if needed – KOSTER KB Pox 002 or KOSTER KB Pox 008
- 3: Waterproofing layer – KOSTER KB Pur 222
- 4: Fleece layer – KOSTER Super Fleece 120 (optional)

Classification of the roof waterproofing system “KOSTER KB Pur 222”

Minimum consumption	1.8 kg/m ²
Minimum layer thickness	1.58 mm
<u>Classification to use categories according to EAD 030350-00-0402:</u>	
Working life	W3 (25 years)
Climatic zones	S (severe climate)
Resistance to mechanical damage (perforation)	Compressible and non-compressible substrates: P-1 P3 (from low to normal)
Roof slope	S1 to S4 (each roof slope)
Lowest surface temperature	TL4 (-30 °C)
Highest surface temperature	TH2 (60 °C)
Use category regarding BWR 3	S/W 2
<u>Performances of the product:</u>	
Reaction to fire EN 13501-1	Class E
External fire performance EN 13501-5	B _{ROOF} (t1)*
Water vapour diffusion resistance factor	μ = 3149
Watertightness	passed
Resistance to fatigue movement	W3
Resistance to ageing media (heat and water)	W3
Release of dangerous substances	See chapter 3.3
Root resistance	No penetration of sealing by roots, watertight
Resistance to wind loads	≥ 50 kPa for tear-resistant substrates
Slipperiness	No performance determined

* Class B_{ROOF}(t1)

The classification is valid for the following supporting decks:

- all roof pitches > 0°
- any non-combustible continuous decks with a minimum of 10 mm

Any other roof systems for which classification documents for B_{ROOF}(t1) according EN 13501-5 are available.

Annex B

Installation

The categorization levels and performance standards for roof waterproofing depend on compliance with the installation protocols specified in the manufacturer's technical documentation. These protocols include, but are not limited to:

- Utilizing properly trained personnel for installation processes.
- Using only components specifically designated as part of the kit.
- Utilizing the required tools and additives as specified.
- Following the specified precautions during installation.
- Performing comprehensive inspections to ensure the roof surface is clean and properly prepared.
- Ensuring adherence to appropriate weather and curing conditions.
- Conducting inspections during the installation process and thoroughly documenting the results.

Adherence to these installation guidelines is essential for accurately evaluating the use category levels and performance expectations of the roof waterproofing system.