



## European Technical Assessment

**ETA 17/0475**  
of 07/06/2021

### General Part

<b>Technical Assessment Body issuing the ETA</b>	<b>Eurofins Expert Services Oy</b>
<b>Trade name of the construction product</b>	<b>Lakka Watertight covering kit</b>
<b>Product family to which the construction product belongs</b>	Liquid applied waterproofing kit for wet room floors and walls
<b>Manufacturer</b>	<b>Lakka Rakennustuotteet Oy</b> P.O. Box 42 FI-80101 Joensuu Finland
<b>Manufacturing plant</b>	<b>Plant A</b>
<b>This European Technical Assessment contains</b>	5 pages including 1 annex which forms an integral part of this assessment
<b>This European Technical Assessment is issued in accordance with regulation (EU) No 305/2011, on the basis of</b>	European Assessment Document (EAD) 030352-00-0503 Liquid applied watertight covering kits for wet room floors and/or walls
<b>This ETA replaces</b>	ETA 17/0475 issued 16/06/2017

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex(es), were relevant).

## Specific Parts

### 1. Technical description of the product

Lakka waterproofing system is a liquid applied water proofing kit. The kit is used as watertight covering for wet room floors and walls beneath a wearing surface.

The kits consist of the following components:

#### Primer

Lakka Primer is a one component polymer dispersion which is used for all substrates. The primer improves adhesion between membrane and substrate. A total consumption of the primer is about 0,1 kg/m<sup>2</sup>.

#### Membrane

Lakka Vedeneriste is one-component liquid applied polymer dispersion. The minimum dry film thickness of the membrane is 0,5 mm. The dry film thickness is usually achieved with a consumption of 1,4 kg/m<sup>2</sup>. At least two applications are needed to achieve mentioned dry film thickness.

#### Reinforcements

The reinforcements belonging to the kit are:

- Lakka Saumanauha (0,1 x 25 m and 0,2 x 25 m) used in connections between floor and wall and in joints, corners and pipe penetrations
- Lakka Lämpivienttiiviste ready-made reinforcement for wall and floor pipe penetrations
- Lakka Nurkkavahvike ready-made reinforcement for inner and outer corners
- Lakka Kaivolaippa and Lakka Kaivomansetti used in floor gully penetrations

#### Adhesives

Adhesives for tile fixings covered by this ETA are:

- Lakka Saneerauslaasti
- Lakka Saneerauslaasti S1.

All adhesives are cement based.

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

The intended use of the covering kit is:

1. To act as watertight covering for use beneath a wearing surface, normally in form of ceramic tiles, on substrates of gypsum board, fibre cement board, cement bonded boards, with cement based screed smoothed masonry or light weight concrete and concrete.

The kit can be used with following type of floor gullies:

- plastic type PP floor gully with clamping ring.
2. Indoor applications, where the liquid applied kit is not exposed to temperatures (i.e. temperature of the structure) below +5 °C or above +40 °C, in the following uses:
    - Floors and walls in ordinary dwellings
    - Floors and walls in public wet rooms, schools and sport facilities (excluding swimming halls).

The provisions made in this ETA are based on an assumed working life of 25 years. The indications given as to the working life cannot be interpreted as a guarantee, neither given by the product manufacturer or by the Technical Assessment Body, but are regarded only as a means for expressing the expected economically reasonable working life of the product.

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

Characteristic	Assessment of characteristic
BWR 2. Safety in case of fire	
Reaction to fire	No performance assessed
BWR 3. Hygiene, health and the environment	
Content, emission and/or release of dangerous substances	No performance assessed
Vapour permeability	Lakka Primer 100 g/m <sup>2</sup> and Lakka Vedeneriste 1,4 kg/m <sup>2</sup> : <b>W= 150 x 10<sup>-12</sup> (kg/m<sup>2</sup> Pa)</b>
Water tightness	<b>Watertight</b>
Crack bridging ability	<b>Assessment category 1</b> , crack width 0,4 mm
Bond strength	<b>Assessment category 2</b> : Bond strength ≥ 0,5 MPa on concrete substrate
Scratching resistance	No performance assessed
Joint bridging ability	<b>Assessment category 2</b> : Watertight
Water tightness around penetrations	Lakka Vedeneriste with Lakka Primer and Lakka reinforcements as described in clause 1* <b>Assessment category 2</b> : Watertight
Resistance to temperature	<b>Assessment category 2</b> : Bond strength ≥ 0,5 MPa on concrete substrate, requirement for crack bridging ability is fulfilled
Resistance to water	<b>Assessment category 2</b> : Bond strength ≥ 0,5 MPa on concrete substrate
Resistance to alkalinity	<b>Assessment category 2</b> : Bond strength ≥ 0,5 MPa on concrete substrate
BWR 4. Safety in use	
Slipperiness of floors	No performance assessed
Reparability	Reparable
Thickness	2,8 kg/(mm x m <sup>2</sup> ) The minimum thickness of the membrane shall be 0,5 mm

\*The kit has been tested with the following floor gully types: circular PP gully with clamping ring (Vieser and Merika) using Lakka Kaivolaippa and Lakka Kaivomansetti.

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

According to the decision 2003/655/EC of the European Commission, the system of assessment and verification of constancy of performance (see Annex V to the regulation (EU) No 305/2011) is 2+.

## **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 at Eurofins Expert Services Oy.

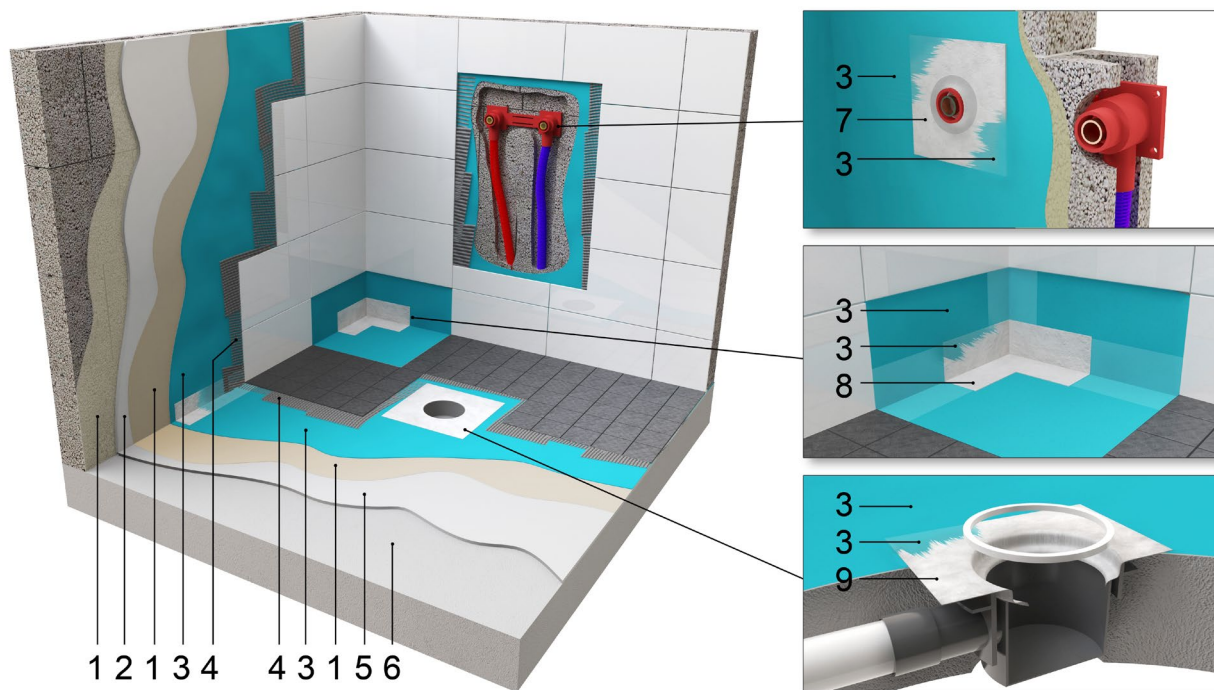
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by Eurofins Expert Services Oy

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## Principal build-up of Lakka Watertight covering kit

**1. Lakka Primer**

2. Lakka cement based wall plaster

**3. Lakka Vedeneriste****4. Lakka Saneerauslaasti or Lakka Saneerauslaasti S1**

5. Lakka cement based floor screed

6. Lakka Dispersion floor screed primer

**7. Lakka Läpivientitiiviste****8. Lakka Nurkkavahvike****9. Lakka Kaivolaippa / Lakka Kaivomansetti**