



ETA-Danmark A/S
Kollegievej 6
DK-2920 Charlottenlund
Tel. +45 72 24 59 00
Fax +45 72 24 59 04
Internet www.etadanmark.dk

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-12/0578 of 2014/04/01

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:

PCI Lastogum Watertight covering kit

Product family to which the above construction product belongs:

Liquid applied watertight covering kit for wet room floors and walls

Manufacturer:

PCI Augsburg GmbH
Piccardstr. 11,
DE-86159 Augsburg
Phone +49 821 5901-0
Fax +49 821 5901-372
Internet www.pci-augsburg.eu

Manufacturing plant:

PCI Augsburg GmbH
Piccardstr. 11,
DE-86159 Augsburg

This European Technical Assessment contains:

9 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:

Guideline for European Technical Approval (ETAG) No. 003 ETAG No 022 Watertight covering kits for wet room floors and/or walls, Part 1: Liquid applied coverings with or without wearing surface, Edition April 2007, used as European Assessment Document (EAD).

This version replaces:

The ETA with the same number issued on 2013-02-01 and expiry on 2018-02-01

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

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex(es) referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product

General

PCI Lastogum is a liquid applied one component membrane kit which serves as a watertight covering for wet room floors and walls beneath a wearing surface.

The kit consists of the following components:

Primer

PCI Gisogrund for moisture sensitive substrates and PCI Wadian S, which is intended to have a significant additional function in limiting the water vapour permeability of the kit.. The primer is used where national provisions require a damp proof membrane.

Membrane

The membrane is a one component system consisting of PCI Lastogum solvent free liquid membrane on polymer dispersion base.

Reinforcement

The reinforcement is Strips: PCI Pectape 120 and PCI Pectape 100 P, which are used to bridge cracks and joints, and in connection between the floor and the wall and in corners. Alternatively, the connection between the floor and the wall and in corners can be reinforced with prefabricated corners PCI Pectape Corner I and PCI Pectape Corner E. Pipe penetrations are reinforced with PCI Pectape 10,5×10,5, PCI Pectape 15×15 or PCI Pectape 22×22 pipe collars. For gullies the PCI Pectape WS 37×37 or PCI Pectape W2S 36×36 are used. The reinforcement is not intended to cover the entire floor and wall covering, but is used over joints and in corners and around pipe penetrations and floor gullies.

Adhesives

Adhesives covered by this ETA is: PCI Nanolight, PCI Nanoflott, PCI FT-Klebemörtel and PCI FT Extra

Kit build-up

The kit is constructed as follows:

- a layer of minimum 100 g/m² PCI Gisogrund or 100 g/m² PCI Wadian S (depending on substrate and requirements)
- reinforcement of in- and out going corners in walls, over joints or cracks in the substrate, around pipe penetrations, floor gullies and

along the connection between floor and wall with PCI Pectape 120 and PCI Pectape 100 P. Alternatively, the connection between the floor and the wall and in corners can be reinforced with PCI Pectape Corner I and PCI Pectape Corner E. Reinforcement around pipe penetrations with PCI Pectape 10,5×10,5, PCI Pectape 15×15 or PCI Pectape 22×22 pipe collars. Reinforcement around the floor gully with PCI Pectape WS 37×37 or PCI Pectape W2S 36×36

- at least 1100 g/m² two component PCI Lastogum distributed evenly over the surface in at least two applications
- a layer of ceramic tiles adhered to the kit with cement based tile adhesive (PCI Nanolight, PCI Nanoflott, PCI FT-Klebemörtel and PCI FT Extra).

Note that the above mentioned amount of PCI Lastogum corresponds to a dry film thickness of 0,5 mm (see section 3.7).

2 Specification of the intended use in accordance with the applicable EAD

The intended use of the covering kit is:

1. watertight covering for use beneath a wearing surface, normally in the form of tiles, on substrates of wood based panels, gypsum boards, fiber cement boards, and concrete, i.e. moisture sensitive substrates, which are flexible and with jointing and susceptible to cracking

The kit can be used with the following types of floor gullies:

a) floor drain, stainless steel, b) Floor drain, PP with clamping ring as screwed connection, c) PP floor drain with clamping ring as screwed connection, d) plastic floor drain with clamping ring as screwed connection and e) plastic floor drain with spring clamping ring.

2. Indoor applications, where the liquid applied kit is not exposed to temperatures (i.e. temperature of structure) below 5 °C and above 40 °C, in the following uses:

- Floor and wall surfaces with only occasional direct exposure to water, e.g. at a good distance from shower or bathtub.
- Floors and walls in shower areas or around bathtubs used for a few showers daily, e.g. in ordinary dwellings, multi-family houses and

hotels

- Floor and wall surfaces with exposure to water more frequent or of longer duration than normally anticipated in dwellings, e.g. public wet rooms, schools and sport facilities.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the kit of 25 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or 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

Characteristic	Assessment of characteristic
3.2 Safety in case of fire (BWR2)	
Reaction to fire	Euroclass E
3.3 Hygiene, health and the environment (BWR3)	
Dangerous substances	No dangerous materials *)
Vapour permeability	<p>The vapour permeability of the PCI Lastogum membrane with and without primer when tested at 23°C and RH 100 → 75 %. The test has been performed with the membrane facing a climate of 100 % RH:</p> <p>The s_d value of the kit applied to the gypsum board is 35,2 m, which is equivalent to $Z = 1.320.000$ s/m with 200 g/m² PCI Wadian S and approx. 1100 g/m² PCI Lastogum in two applications</p> <p>The s_d value of the kit applied to the gypsum board is 0,86 m, which is equivalent to $Z = 32.100$ s/m with approx. 1100 g/m² PCI Lastogum in two applications without primer</p>
Moisture resistance	
Water tightness	Watertight according to EN 14891
Crack bridging ability	Assessment category 2: Crack width 0,75 mm
Bond strength	<p>100 g/m² PCI Gisogrund and approx. 1100 g/m² PCI Lastogum membrane and the following tile adhesives; PCI Nanolight, PCI Nanoflott, PCI FT-Klebemörtel and PCI FT Extra on a concrete substrate all comply with Assessment category 2: Bond strength > 0,5 MPa</p> <p>100 g/m² PCI Gisogrund and approx. 1100 g/m² PCI Lastogum membrane and the following tile adhesives; PCI Nanolight, PCI Nanoflott, PCI FT-Klebemörtel and PCI FT Extra on substrates**) of gypsum boards, fibre cement boards and wood based boards comply with Assessment category 2: Bond strength > 0,5 MPa</p>
Scratching resistance	No performance determined
Joint bridging ability	<p>100 g/m² PCI Gisogrund and approx. 1100 g/m² PCI Lastogum membrane in two applications applied with PCI Pecitape 120 and PCI Pecitape 100 P Reinforcement comply with Assesment category 2: Watertight</p>

Characteristic	Assessment of characteristic
Water tightness around penetrations	100 g/m ² PCI Gisogrund and approx. 1100 g/m ² PCI Lastogum membrane and PCI Pecitape Reinforcement as described in section II.1 ***) comply with Assesment category 2: Watertight
3.7 Related aspects of durability and serviceability	
Resistance to temperature	Assessment category 2: Bond strength > 0,5 MPa
Resistance to water	Assessment category 2: Bond strength > 0,5 MPa
Resistance to alkalinity	Assessment category 2: Bond strength > 0,5 MPa
Resistance to mechanical wear	Not relevant
Cleanability	Not relevant
Repairability	Repairable
Thickness	The required weight (wet) of the PCI Lastogum membrane is 2,2 kg/m ² pr. mm dry thickness of the layer The minimum thickness of the membrane shall be 0,5 mm.
Applicability	Applicable
3.8 Sustainable use of natural resources (BWR7)	No performance determined

*) In accordance with <http://europa.eu.int/-/comm/enterprise/construction/internal/dangsub/dangmain.htm> In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products 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 assessment of the fitness for use of the kit on the generic description of the boards is based on test on the following specified substrates in addition to concrete according to EN 1323; wood based panels, gypsum boards and fiber cement boards

***) In accordance with the provisions of ETAG 022 part 1 – Annex A, the kit has been tested with three types of floor gullies; three circular gullies, one made from stainless steel with a flange for floors with a membrane and one in PP plastic with a clamping ring, and one in PP plastic with a screw flange

Aspects related to the performance of the product

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The performance of the watertight membrane kit results from the characteristic values and categories.

The supplementing statements of the manufacturer stated in the MTD for design and application of the watertight system for creating a watertight covering under wearing surface for floors and walls in indoor wet areas shall be considered

The performance of the watertight membrane can be assumed only, if the following aspects are considered:

- only those components which are specified components of the kit can be used,
- the appropriate tools shall be used and adjuvant, precautions shall be taken,
- inspecting the substrate surface for cleanliness and correct treatment,
- inspection in the process of establishing the kit and of the finished watertight membrane and documentation of the results.

The information as to the handling of waste products shall be observed.

It is the manufacturer's responsibility to make sure that all those who utilize the kit will be appropriately informed about the specific conditions according to this ETA and the not confidential parts of the MTD deposited to this ETA

4 Attestation and verification of constancy of performance (AVCP)

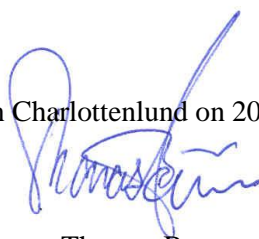
4.1 AVCP system

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

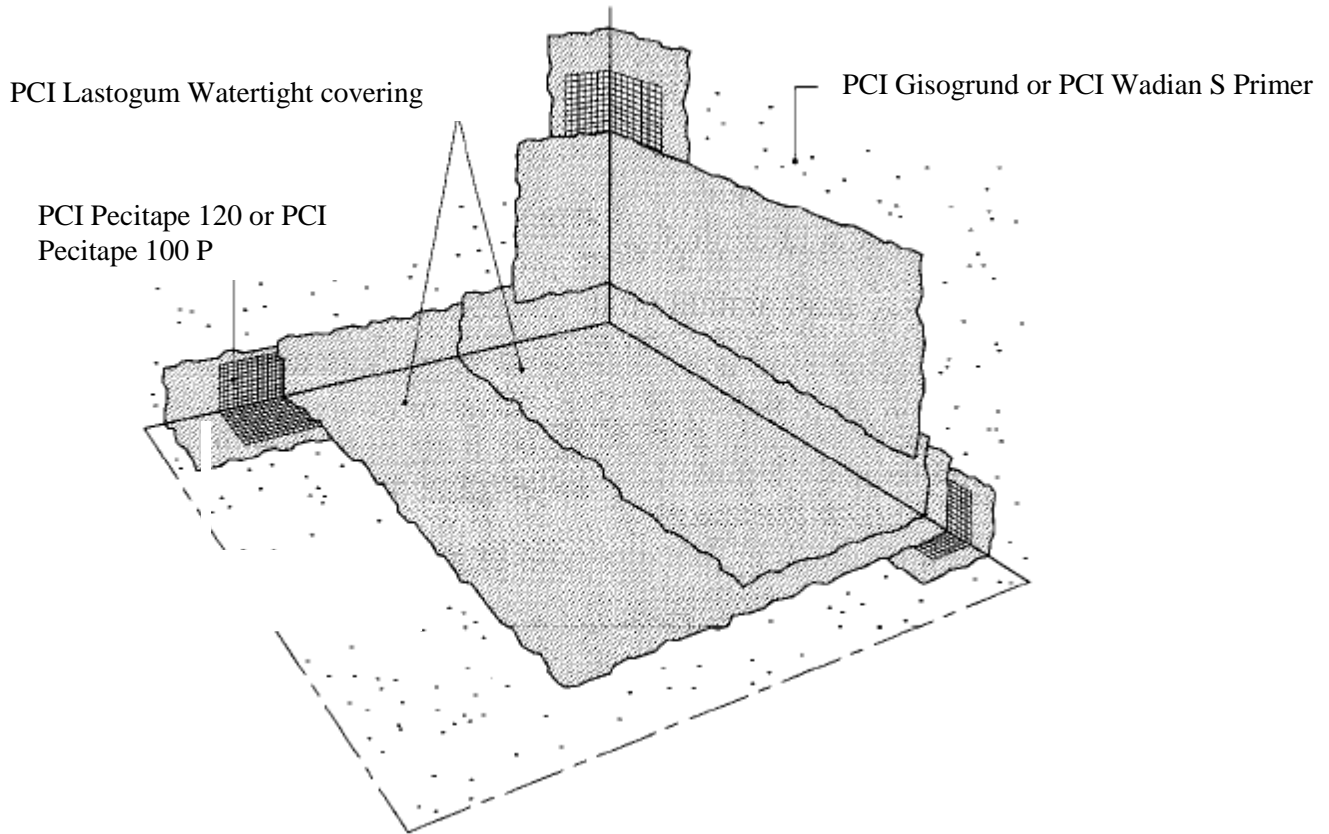
5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark

Issued in Charlottenlund on 2014-04-01 by



Thomas Bruun
Managing Director, ETA-Danmark



PCI Lastogum watertight covering kit	Annex 1
Principle build-up of the kit	of European Technical Assessment ETA-12/0578