



ETA-Danmark A/S
Göteborg Plads 1
DK-2150 Nordhavn
Tel. +45 72 24 59 00
Internet www.etadanmark.dk

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to Article 29 of the Regulation (EU)
No 305/2011 of the European
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MEMBER OF EOTA



European Technical Assessment ETA-23/0378 of 2023/05/19

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:

POSEIDON watertight covering kit

Product family to which the above construction product belongs:

Liquid applied watertight covering kit for wet room floors and walls

Manufacturer:

Intelligent Membranes Ltd.
Clopton Manor
Clopton Farm Lower Road
Croydon
UK- Cambridgeshire, SG8 0EF
Telephone +44 1223 208174
Internet www.intelligentmembranes.com

Manufacturing plant:

Intelligent Membranes Ltd.
Manufacturing Plant II

This European Technical Assessment contains:

7 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:

EAD 030352-00-0503 Liquid applied watertight covering kit for wet room floors and/or walls.

This version replaces:

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product

General

POSEIDON is a Polymer based spray membrane, applied in 2 cross-sprayed layers of 400 g/m² to an end consumption of 0,8 kg/m², and a dry film thickness of 0,4 mm or 1000g/m² to an end consumption of 2 kg/m², and a dry film thickness of 1,0 mm.

The membrane is applied with Airless paint sprayer, roller or brush. The inside temperature when applied 5 to 25°C. 24-48 hours after the second layer is applied, the membrane is dry, and the tiles/clinker can be mounted in either cement based C2 or dispersion adhesive D2TE according to EN 12004.

The kit consists of the following components:

Membrane

POSEIDON is a Polymer based spray membrane.

Reinforcement

Inward and outward corners, around pipe penetrations and at floor drains are sealed with Hybrid 7057z sealant or Acryl DSP/Copagro after which POSEIDON is applied.

Adhesives

Tile adhesives are covered by this ETA are: C2TE S1 type mortar (SikaCeram Starfix®) and a two-component mortar type C2 FTE S2 (Elastorapid®)"

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

Circular and rectangular gullies made from stainless steel or plastic type PE, with flange for adhesion of the membrane or with clamping ring or with collar

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	No performance assessed
3.3 Hygiene, health and the environment (BWR3)	
Content, emission and/or release of dangerous substances*	No performance assessed
Vapour permeability	The vapour permeability of the POSEIDON System applied in two applications and tested at 23°C and RH 93-50%: sd value = 33,65 m , corresponding to a Z-value of 168,25 GPa S m ² /kg.
Water tightness	Watertight
Crack bridging ability	Assessment category 1: Crack width 0,4 mm
Bond strength	POSEIDON System and the following tile adhesives; SikaCeram Starfix® and Elastorapid® all comply with Assessment category 2: Bond strength > 0,5 MPa
Scratching resistance	Not relevant
Joint bridging ability	Pass the kit can bridge joints
Water tightness around penetrations	Watertight
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	Two layers of POSEIDON System comply with Assessment category 2: Bond strength ≥ 0,5 Mpa
Resistance to mechanical wear	Not relevant
3.4 Safety in use (BWR4)	
Slipperiness	Not relevant
Reparability	No performance assessed
Thickness	The required weight (wet) of the POSEIDON membrane is 1,15 kg/m ² pr. mm required thickness of the layer The minimum thickness of the membrane measured is 0,42 mm dry film thickness.
Durability of paint kits	Not relevant

*) 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.

See additional information in section 3.9.

3.9 General aspects related to the performance of the product

The European Technical Assessment is issued for the product based on 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 such changes affect the ETA and consequently the validity of the CE marking based on 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 Assessment and verification of constancy of performance (hereinafter AVCP) system applied, with reference to its legal base

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+.

The Decision 2003/655/EC of the European Commission with regard to reaction to fire is not relevant.

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 ETA-Danmark prior to the CE marking

Issued in Copenhagen on 2023-05-19 by



Thomas Bruun
Managing Director, ETA-Danmark



POSEIDON	Annex 1
Principle build-up of the kit	