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for construction products



European Technical Assessment

ETA-09/0200
of 5 July 2024

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:

Deutsches Institut für Bautechnik

Trade name of the construction product

Aquaproof System

Product family to which the construction product belongs

Liquid applied watertight covering for wet rooms with wearing surface

Manufacturer

Köster Aquatecnic Ltd
The Mount Sydney
Craigs Road
DUMFRIES DG1 4 EU
GROSSBRITANNIEN

Manufacturing plant

Manufacturing plant DG1

This European Technical Assessment contains

8 pages including 3 annexes which form an integral part of this assessment

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

EAD 030352-00-0503

This version replaces

ETA-09/0200 issued on 17 May 2018

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Specific part

1 Technical description of the product

"Aquaproof System" is a watertight covering kit. It consists of the following components:

- Primer "Aquaproof Primer".
- One-component liquid waterproofing membrane "Aquaproof Sealing Compound" on the basis of styrene-butadiene.
- Sealing tapes "Aquaproof Tape" and "Aquaproof Fleece Tape".
- Ingoing sealing corner "Aquaproof Internal Corner".
- Outgoing sealing corner "Aquaproof External Corner".
- Sealing sleeve for walls "Aquaproof Sleeve".
- Sealing sleeves for floor gullies "Aquaproof Sleeve" and "Aquaproof Butyl Sleeve".
- Tile adhesive "Aquaproof Flexible Adhesive" according to EN 12004¹.

The kit is intended to be used under a wearing surface, e.g., tiles. The wearing surface and the jointing material are not part of the kit, but are considered during the assessment of the intended use of the product. Pipes and floor gullies themselves are not part of the kit.

Annex A1 shows the system build-up and Annexes A2 and A3 show the components for the sealing details.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The kit is intended for the waterproofing of floors and walls in indoor wet areas under a wearing surface at possible temperature of between 5 °C and 40 °C.

The following uses are intended:

- Floor and/or wall surfaces with only occasional direct exposure to water, e. g. at a good distance from shower or bathtub.
- Floor and/or wall in shower areas or around bathtubs used for a few showers daily, e. g., in ordinary dwellings, multifamily houses and hotels.
- Floor and/or 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 waterproofing system is intended to be used on flexible substrate e. g., plywood, chipboard, gypsum, anhydrite or similar material vulnerable to water and on rigid substrates e. g., masonry or concrete.

The product is used in connection with the following types of drains:

Stainless steel or plastics – type PP or PE – with flange for attaching of collar/waterproofing layer or with clamping ring and collar. It is up to the responsibility of the user to use suitable products of the given types.

The performances given in Section 3 are only valid if the watertight covering kit is used in compliance with the specifications and conditions given in Annex B and the installation instructions of the manufacturer stated in the technical documents².

¹ EN 12004:2007+A1:2012 Adhesives for tiles - Requirements, evaluation of conformity, classification and designation

² The manufacturer's technical documents comprise all information necessary for the production and the installation of the product as well as for repair of the waterproofing made from that and it is deposited with DIBt.

The verifications and assessment methods on which this European Technical Assessment is based lead the assumption of working life of the watertight covering kit of 25 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, 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)

Essential characteristic	Performance
Reaction to fire	See Annex A1

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Content, emission and/or Release of dangerous substances:	See Annex A1
Vapour permeability	See Annex A1
Watertightness	See Annex A1
Crack bridging ability	See Annex A1, category
Bond strength	See Annex A1, category
Scratching resistance	See Annex A1
Joint bridging ability	See Annex A1
Watertightness around penetration	See Annex A1
Resistance to temperature	See Annex A1, category
Resistance to water	See Annex A1, category
Resistance to alkalinity	See Annex A1, category
Resistance to mechanical wear	See Annex A1

3.3 Safety and accessibility in use (BWR 4)

Essential characteristic	Performance
Slipperiness	See Annex A1
Reparability	See Annex A1
Thickness	See Annex A1

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

In accordance with EAD No. 030352-00-0503, the applicable European legal act is: 2003/665/EC.

The system to be applied is: 2+

In addition, with regard to reaction to fire for products covered by this EAD the system to be applied is: 3

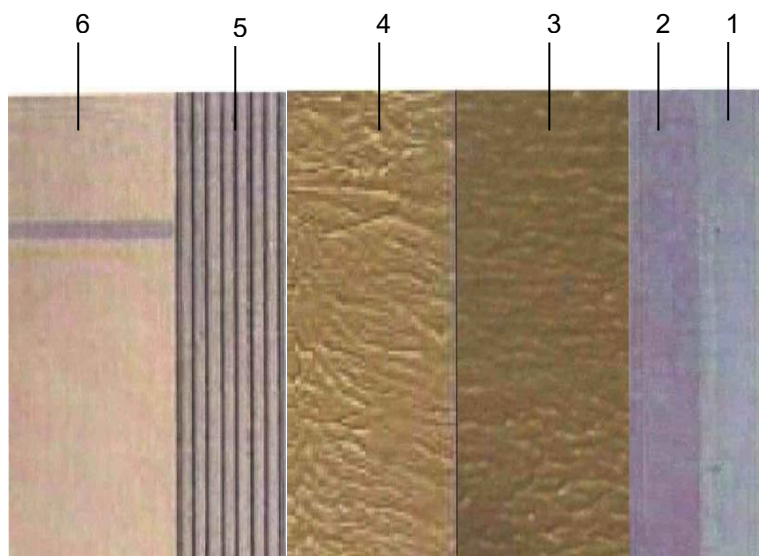
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 8 July 2024 by Deutsches Institut für Bautechnik

Bettina Hemme
Head of Section

beglaubigt:
Hannoun



- 1) Substrate
- 2) Primer "Aquaproof Primer"
- 3) 1st layer "Aquaproof Sealing Compound"
- 4) 2nd layer "Aquaproof Sealing Compound"
- 5) Tile adhesive "Aquaproof Flexible Adhesive"
- 6) Tiles (not part of the kit)

Working life	25 years
Essential characteristic	Performance
Reaction to fire	EN 13501-1 Class E
Content, emission and/or release of dangerous substances^{a)}	
Component: Tile adhesive (CE-marked)	According to EN 12004
All other components:	No performance assessed
Vapour permeability (Water vapour diffusion-equivalent air layer thickness; 23 °C – 50/93 % r.h.) "Aquaproof Primer" + "Aquaproof Sealing Compound" (1000 g/m ²)	$s_d \approx 2,3 \text{ m}$
Water tightness	Watertight
Crack bridging ability	Category 1: Crack width 0.4 mm
Bond strength using the tile adhesive: "Aquaproof Flexible Adhesive"	Category 2: Bond strength $\geq 0.5 \text{ MPa}$
Scratching resistance	No performance assessed (not relevant)
Joint bridging ability	Can bridge joints (watertight, joint width 2 mm)
Water tightness around penetrations (Tests according to Annex A and Annex F of EAD)	Watertight (on flexible and rigid floors and walls)
Resistance to temperature	Category 2: Bond strength $\geq 0.5 \text{ MPa}$ + Crack width 0.4 mm
Resistance to water	Category 2: Bond strength $\geq 0.5 \text{ MPa}$
Resistance to alkalinity	Category 2: Bond strength $\geq 0.5 \text{ MPa}$
Resistance to mechanical wear	No performance assessed (not relevant)
Slipperiness	No performance assessed
Reparability	reparable
Thickness Minimum layer thickness of the waterproofing layer	0.5 mm

^{a)} Release scenarios regarding BWR 3: IA 2.

Aquaproof System Köster Aquatecnic Ltd	Annex A1
System built-up, levels of use categories and performances of the product	

Sealing tapes:

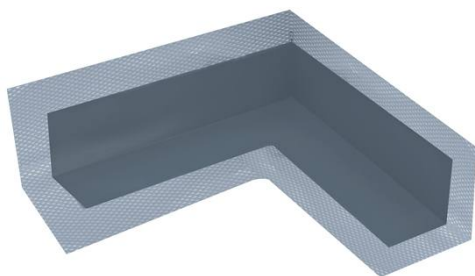


"Aquaproof Tape" width 120 mm

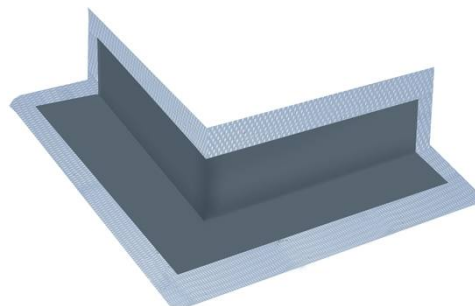


"Aquaproof Fleece Tape" width 120 mm

Ingoing/outgoing corners:



"Aquaproof Internal Corner"
Leg length 100 or 140 mm



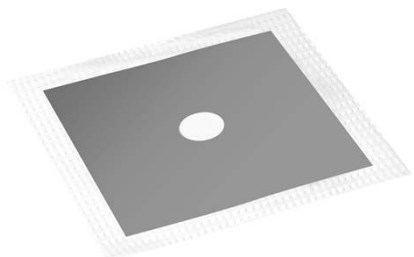
"Aquaproof External Corner"
Leg length 75 or 140 mm

Aquaproof System
Köster Aquatecnic Ltd

Components

Annex A2

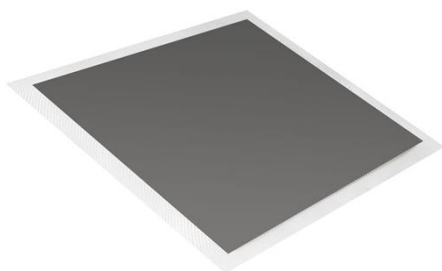
Sealing sleeves for walls:



"Aquaproof Sleeve"

100 x 100 mm; 150 x 150 mm; 200 x 200 mm

Sealing sleeves for floors:



"Aquaproof Sleeve"

350 x 350 mm; 400 x 400 mm



"Aquaproof Butyl Sleeve"

370 x 370 mm

Aquaproof System
Köster Aquatecnic Ltd

Components

Annex A3

Installation

The levels of use categories and the performance of the waterproofing kit can be assumed only, if the installation is carried out according to the installation instructions stated in the technical file of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel;
- installation of only those components which are specified components of the kit;
- installation with the required tools and adjuvant;
- precautions during installation;
- inspecting the substrate surface for cleanliness and correct treatment;
- inspecting during installation and of the finished watertight membrane and documentation of the results.

Aquaproof System Köster Aquatecnic Ltd	Annex B
Intended use Specifications for the installation	