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European Technical Assessment Body  
for construction products



## European Technical Assessment

ETA-24/0382  
of 12 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

Dukkaboard Flex-Seal Waterproofing System

Product family to which the construction product belongs

Liquid applied watertight covering kits for wet room floors and/or walls

Manufacturer

Trimline Group

Teardrop Centre Unit 1, Teardrop Industrial Park

London Road

GB BR8 8TS SWANLEY

UNITED KINGDOM

Manufacturing plant

Manufacturing plant BR8 8TS

This European Technical Assessment contains

10 pages including 5 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

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## Specific part

### 1 Technical description of the product

"Dukkaboard Flex-Seal Waterproofing System" is a watertight covering kit. It consists of the following components:

- Primer "Dukkaboard Aqua77 Primer" on the basis of styrene-butadiene.
- One-component liquid waterproofing membrane "Dukkaboard Aqua77 Neo-Flex" on the basis of styrene-butadiene.
- Sealing tapes:
  - "Dukkaboard Flex-Seal FS120 Tape"
  - "Dukkaboard Deco-Shield VF120 tape"
- Internal sealing corners:
  - "Dukkaboard Flex-Seal FS90 internal corner"
  - "Dukkaboard Deco-Shield VF90 internal corner"
- External sealing corners:
  - "Dukkaboard Flex-Seal FS270 external corner"
  - "Dukkaboard Deco-Shield VF270 external corner"
- Sealing sleeves for walls:
  - "Dukkaboard Flex-Seal FS100 Collar"
  - "Dukkaboard Flex-Seal FS150 Collar"
  - "Dukkaboard Flex-Seal FS200 Collar"
- Sealing sleeves for floor drains:
  - "Dukkaboard Flex-Seal FS350 Collar"
  - "Dukkaboard CSA370 collar"
- Tile adhesive "Validus Sero" according to EN 12004<sup>1</sup>.

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 to A4 show the components for 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.

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

- 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 documents<sup>2</sup>.

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

<sup>2</sup> 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.

### 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

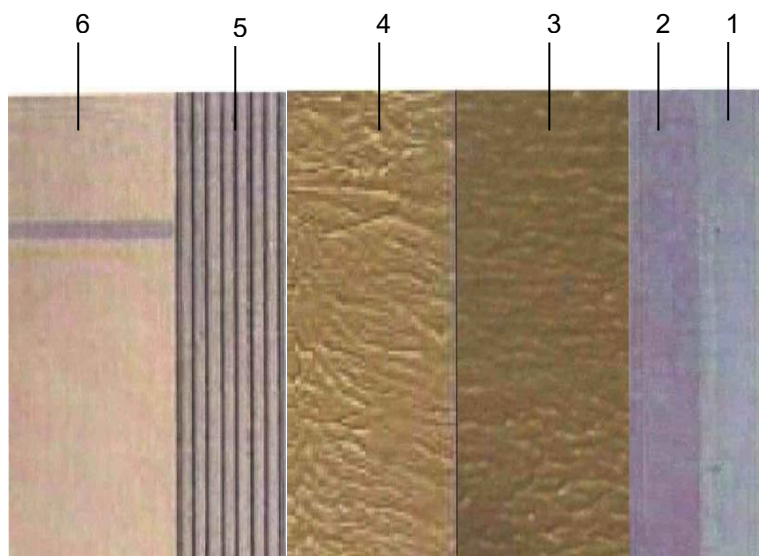
### 5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 15 July 2024 by Deutsches Institut für Bautechnik

Bettina Hemme  
Head of Section

*beglaubigt:*  
Hannoun



- 1 Substrate
- 2 Primer "Dukkaboard Aqua77 Primer"
- 3 1<sup>st</sup> layer "Dukkaboard Aqua77 Neo-Flex"
- 4 2<sup>nd</sup> layer "Dukkaboard Aqua77 Neo-Flex"
- 5 Tile adhesive "Validus Sero"
- 6 Tiles (not part of the kit)

<b>Working life</b>	25 years
<b>Essential characteristic</b>	<b>Performance</b>
<b>Reaction to fire</b> EN 13501-1	Class E
<b>Content, emission and/or release of dangerous substances<sup>a)</sup></b>	
Component: Tile adhesive (CE-marked)	According to EN 12004
All other components:	No performance assessed
<b>Vapour permeability</b> (Water vapour diffusion-equivalent air layer thickness; 23 °C – 50/93 % r.h.) "Dukkaboard Aqua77 Primer" + "Dukkaboard Aqua77 Neo-Flex" (1000 g/m <sup>2</sup> )	$s_d \approx 2,3 \text{ m}$
<b>Water tightness</b>	Watertight
<b>Crack bridging ability</b>	Category 1: Crack width 0.4 mm
<b>Bond strength</b> using the tile adhesive: "Validus Sero"	Category 2: Bond strength $\geq 0.5 \text{ MPa}$
<b>Scratching resistance</b>	No performance assessed (not relevant)
<b>Joint bridging ability</b>	Can bridge joints (watertight, joint width 2 mm)
<b>Water tightness around penetrations</b> (Tests according to Annex A and Annex F of EAD)	Watertight (on flexible and rigid floors and walls)
<b>Resistance to temperature</b>	Category 2: Bond strength $\geq 0.5 \text{ MPa}$ + Crack width 0.4 mm
<b>Resistance to water</b>	Category 2: Bond strength $\geq 0.5 \text{ MPa}$
<b>Resistance to alkalinity</b>	Category 2: Bond strength $\geq 0.5 \text{ MPa}$
<b>Resistance to mechanical wear</b>	No performance assessed (not relevant)
<b>Slipperiness</b>	No performance assessed
<b>Reparability</b>	Reparable
<b>Thickness</b> Minimum layer thickness of the waterproofing layer	0.5 mm

<sup>a)</sup> Release scenarios regarding BWR 3: IA 2.

<b>Dukkaboard Flex-Seal Waterproofing System</b> Trimline Group	Annex A1
<b>System built-up, levels of use categories and performances of the product</b>	

### Sealing tapes



"Dukkaboard Flex-Seal FS120 Tape"  
Width 120 mm



"Dukkaboard Deco-Shield VF120 tape"  
Width 120 mm  
With and without perforation

**Dukkaboard Flex-Seal Waterproofing System**  
Trimline Group

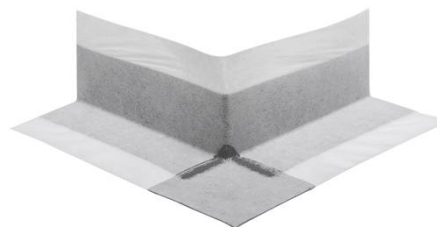
**Details and components**

Annex A2

**Internal/external corners**



"Dukkaboard Flex-Seal FS90 internal corner"  
Leg length 100 or 140 mm



"Dukkaboard Flex-Seal FS270 external corner"  
Leg length 75 or 140 mm



"Dukkaboard Deco-Shield VF90 internal corner"  
Leg length 120 mm  
With and without perforation



"Dukkaboard Deco-Shield VF270 external corner"  
Leg length 105 mm  
With and without perforation

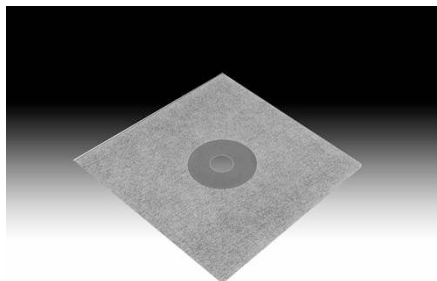
**Dukkaboard Flex-Seal Waterproofing System**  
Trimline Group

**Details and components**

Annex A3



### Sealing sleeves for walls



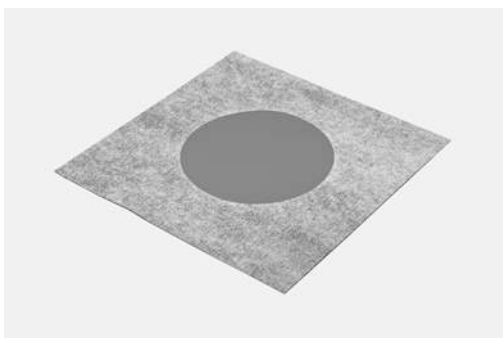
"Dukkaboard Flex-Seal FS100 Collar"; 100 x 100 mm

"Dukkaboard Flex-Seal FS150 Collar"; 150 x 150 mm

"Dukkaboard Flex-Seal FS200 Collar"; 200 x 200 mm

With and without perforation

### Sealing sleeves for floors:



"Dukkaboard Flex-Seal FS350 Collar"; 350 x 350 mm

With and without perforation



"Dukkaboard CSA370 collar"; 370 x 370 mm

**Dukkaboard Flex-Seal Waterproofing System**

Trimline Group

**Details and components**

Annex A4

### 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.

<b>Dukkaboard Flex-Seal Waterproofing System</b> Trimline Group	Annex B
<b>Intended use</b> Specifications for the installation	