

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-11/0327
of 17 May 2018

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

Skalflex Vadrumsaet
Scan Vadrumsaet

Product family
to which the construction product belongs

Liquid applied watertight covering for wet rooms with
wearing surface

Manufacturer

Skalflex A/S
Industrivej 20 B
8800 VIBORG
DÄNEMARK

Manufacturing plant

Produktionsanlage 8800

This European Technical Assessment
contains

9 pages including 4 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

ETAG 022 Part 1: "Liquid Applied Coverings with or
without Wearing Surface",
used as EAD according to Article 66 Paragraph 3 of
Regulation (EU) No 305/2011.

This version replaces

ETA-11/0327 issued on 24 May 2013

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Specific part

1 Technical description of the product

The watertight covering "Skalflex Vådrumssaet" / "Scan Vådrumssaet" is a kit. It consists of the following components:

- Primer "Skalflex primer" / "Scan primer"
- one-component liquid waterproofing membrane "Skalflex forseglingsmasse grå" / "Scan forseglingsmasse grå" on the basis of styrol-butadien
- sealing tape Type "Skalflex forseglingstape" / "Scan forseglingstape"
- "Skalflex indvendig hjørneforsegling" / "Scan indvendig hjørneforsegling" or "Skalflex udvendig hjørneforsegling" / "Scan udvendig hjørneforsegling"
- sealing sleeves for walls "Skalflex afløbsmanchet" / "Scan afløbsmanchet"
- sealing sleeves for floor gullies "Skalflex afløbsmanchet" / "Scan afløbsmanchet"
- adhesive "Skalflex Multi-Klæb" / "Scan Multi-Klæb" or "Skalflex Flexiklæb" / "Scan Flexiklæb" 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.

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

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

The intended use of the watertight covering under a wearing surface is to create a floor and wall watertight covering for indoor wet areas at possible operating temperature of 5 °C till 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 watertight membrane 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 should be used in connection with the following types of gullies:

Stainless steel or plastics – type PP or PE – with flange for attaching of collar/membrane or with clamping ring and collar.

The gullies are not part of the kit. It is up to the responsibility of the user to use suitable products of the given types.

¹ EN 12004:2014-02 Adhesives for tiles - Requirements, evaluation of conformity, classification and designation

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.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the watertight covering kit of at least 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
contain dangerous substances	
Component: Tile adhesive (CE-marked)	According to EN 12004
Other components: Carcinogenic substances, classified as EU-Kat. Carc. 1A/1B (H350, H350i) and mutagenic substances, classified as EU-Kat. Muta. 1A/1B (H340), according to the regulation (EG) Nr. 1272/2008.	No activ dangerous substances in these components ²
release dangerous substances	
release scenario concerning BWR 3: IA2, IA3 (according to EOTA TR 034)	npa
Vapour permeability	See Annex A1, declared value
Watertightness	See Annex A1
Crack bridging ability	See Annex A1, category
Bond strength	See Annex A1, category
Scratching resistance	See Annex A1, declared value
Joint bridging ability	See Annex A1, category
Watertightness around penetrations	See Annex A1, category

3.3 Safety and accessibility (BWR 4)

Essential characteristic	Performance
Slipperiness	See Annex A1, declared value

² The evaluation based on the manufactured's declarations.

English translation prepared by DIBt

3.4 General aspects

The verification of durability and serviceability is part of testing the essential characteristics and by additional tests on the kit respectively on the components:

Essential characteristic	Performance
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, declared value
Cleanability	See Annex A1, declared value
Reparability	See Annex A1, statement of the manufacturer
Thickness	See Annex A1, declared value
Applicability	See Annex A1, declaration

The verification of durability and serviceability is only ensured if the specifications of intended use according to Annex B1 and the specifications of the technical file of the manufacturer are kept.

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

According to Decision of the Commission of 12 September 2003 (2003/655/EC) (OJ L 231 of 17.09.2003, p. 12) the system of assessment and verification of constancy of performance (see Annex V and Article 65 Paragraph 2 to Regulation (EU) No 305/2011) given in the following table applies.

Product	Intended use(s)	Level or class	System
Watertight covering kits for wetroom floors and walls	For building works	-	2+
	For uses subject to regulation on reaction to fire	E	3

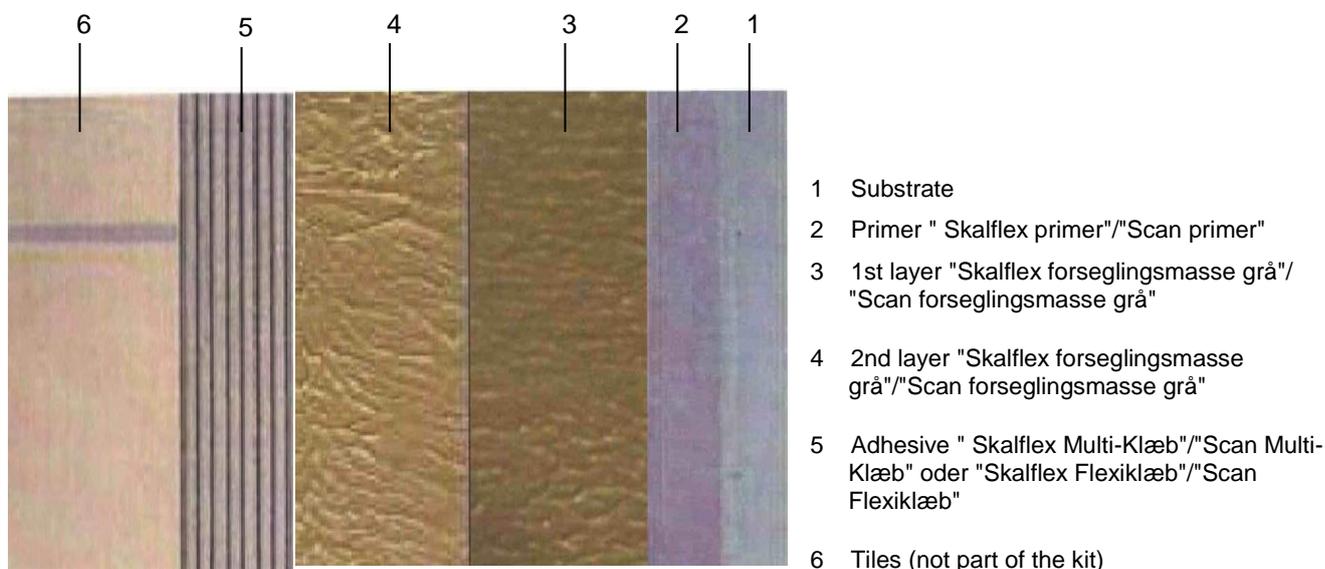
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 17 May 2018 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Gnamou



Minimum layer thickness of the waterproofing sheet 0,5 mm

Level of use categories according to ETAG 022 with relation to:

Use category related to BWR 3	IA2, S/W3
Crack bridging ability	category 1: 0,4 mm
Bond strength	category 2: $\geq 0,5$ MPa
Joint bridging ability	category 2: wasserdicht
Water tightness around penetrations	category 2: wasserdicht
Resistance to water	category 2: $\geq 0,5$ MPa
Resistance to alkalinity	category 2: $\geq 0,5$ MPa

Performance of the product::

Working life	25 years
Reaction to fire acc. to EN 13501-1	class E
Statement on dangerous substance	see section 3.3
Water vapour diffusion resistance factor: 23 °C – 50/93 % r.h.	$s_d = 2,3$ m
Water tightness acc. to EN 13967	watertight
Scratch resistance	not relevant acc. ETAG 022-1
Resistance to mechanical wear	not relevant acc. ETAG 022-1
Cleanability	not relevant acc. ETAG 022- with a wearing surface
Reparability	reparable
Slipperiness	npa
Applicability	applicable
Resistance to temperature	category 2: $\geq 0,5$ MPa

Skalflex Vadrumssaet
Scan Vadrumssaet

System built-up, levels of use categories and performances of the product

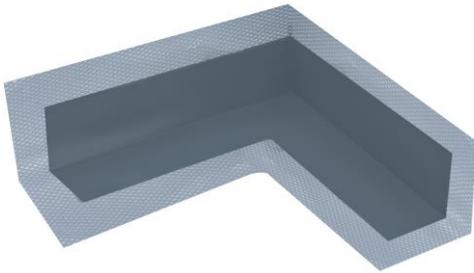
Annex A1

Sealing tape:

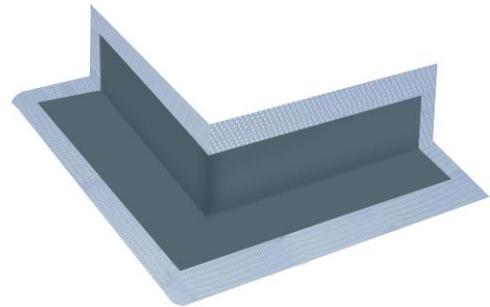


"Skalflex forseglingsstape"/"Scan forseglingsstape"
width 120 mm

Ingoing/outgoing corners:

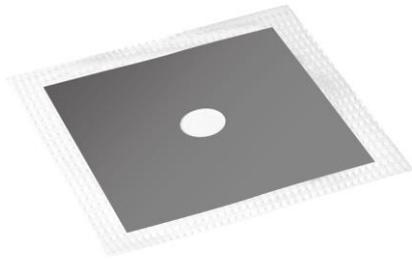


"Skalflex indvendig hjørneforsegling"
"Scan indvendig hjørneforsegling"
leg length 100 or 140 mm

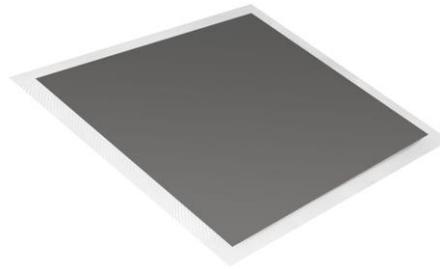


"Skalflex udvendig hjørneforsegling"
"Scan udvendig hjørneforsegling"
leg length 75 or 140 mm

Sealing sleeves for walls and floors:



"Skalflex afløbsmanchet"
"Scan afløbsmanchet"
100 x 100 mm, 150 x 150 mm, 200 x 200 mm



"Skalflex afløbsmanchet"
"Scan afløbsmanchet"
350 x 350 mm, 400 x 400 mm

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.

Skalflex Vadrumssaet
Scan Vadrumssaet

Intended use
Specifications

Annex B