

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-12/0271
of 7 December 2017

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

ARDATEC Flexdicht

Product family
to which the construction product belongs

Liquid applied watertight covering on basis of a
waterbased polymer dispersion for walls and floors in wet
rooms with wearing surface

Manufacturer

Bostik GmbH
An der Bundesstraße 16
33829 Borgholzhausen
DEUTSCHLAND

Manufacturing plant

Bostik GmbH
Werk Borgholzhausen
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33829 Borgholzhausen
Deutschland

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

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-12/0271 issued on 30 August 2012

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Specific part

1 Technical description of the product

The watertight covering "ARDATEC Flexdicht" is a kit. The kit consists of:

- one component liquid waterproofing mass on the basis of a one-component polymer-dispersion
- primer "Nibogrund DT" on the basis of a one-component polymer-dispersion
- sealing tape "Ardatape 100 Extra" respectively "Ardatape 120 Extra"
- sealing sleeve for corners "Ardatape Inside" and "Ardatape Outside", penetrations "Ardatape Wall" and "PU-Dichtmanschette Wand extra" and floor gullies "Ardatape Floor"

The kit is used with adhesives for tiles according to EN 12004¹

"ARDAFLEX Top",
"ARDAFIX PRO" or
"ARDAFLEX® Flexmörtel" on the basis of cement mortar.

The kit is intended to be used under a wearing surface, e.g. tiles.

The tiles 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 for wet areas and annex A2 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 can be used in connection with the following types of gullies:

Stainless steel, plastics – type PE or PP – 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.

Von den Leistungen in Abschnitt 3 kann nur ausgegangen werden, wenn die Nassraumabdichtung entsprechend den Angaben und unter den Randbedingungen nach Anhang B verwendet wird.

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

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
release dangerous substances	
release scenario concerning BWR 3: IA2, IA3 (according to EOTA TR 034)	no performance assessed
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 in use (BWR 4)

Essential characteristic	Performance
Slipperiness	See Annex A1, declared value

3.5 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

English translation prepared by DIBt

The verification of durability and serviceability is only ensured if the specifications of intended use according to Annex B and the specifications of the technical files 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

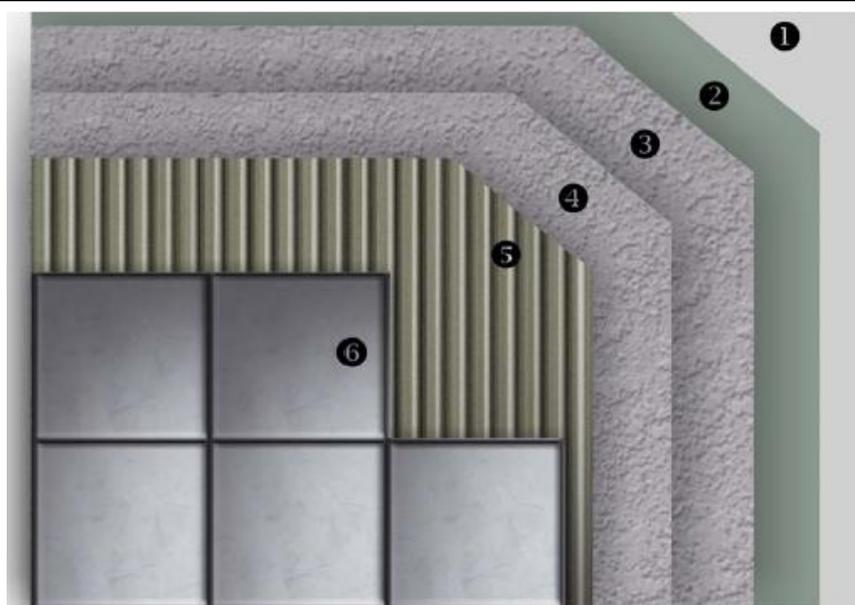
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 7 December 2017 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow
Head of Department

beglaubigt:
Gnamou



- 1 Substrate
- 2 Primer Nibogrund DT
- 3 1st layer of ARDATEC Flexdicht,
- 4 2nd layer of ARDATEC Flexdicht
- 5 Adhesive
- 6 Protectionlayer (e. g. tiles) (not part of the kit)

Minimum layer thickness of the waterproofing sheet 0.6 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: ≥ 0.5 MPa
Joint bridging ability	category 2: watertight
Water tightness around penetrations	category 2: watertight
Resistance to water	category 2: ≥ 0.5 MPa
Resistance to alkalinity	category 2: ≥ 0.5 MPa
Resistance to temperature	category 2

Performance of the product:

Working life	25 years
Reaction to fire acc. to EN 13501-1	class E
Statement on dangerous substance	see section 3.2
Water vapour diffusion resistance factor ARDATEC Flexdicht: 23 °C-50 % / 95 %.	$s_d = 3,3 \text{ m} / \mu = 3153$
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 022-1
Reparability	No performance assessed
Slipperiness	No performance assessed
Applicability	applicable

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

Annex A1

Components belonging to the kit	Main dimensions
Ardatape 100 Extra	Width: 100 mm
Ardatape 120 Extra	Width: 120 mm
Ardatape Inside	Side length 120 mm
Ardatape Outside	Side length 120 mm
Ardatape Wall	200 mm x 200 mm
PU-Dichtmanschette Wand extra	100 mm x 100 mm 150 mm x 150 mm
Ardatape Floor	370 mm x 370 mm

Adhesives belonging to the Kit:

ARDAFLEX Top

ARDAFIX PRO

ARDAFLEX® Flexmörtel

ARDATEC Flexdicht
Bostik GmbH

Details and components

Annex A2

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.

ARDATEC Flexdicht
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Intended use
Specifications

Annex B