



Approval body for construction products and types of construction

**Bautechnisches Prüfamt** 

An institution established by the Federal and Laender Governments



# **European Technical Assessment**

ETA-17/0839 of 28 June 2018

English translation prepared by DIBt - Original version in German language

#### **General Part**

Technical Assessment Body issuing the European Technical Assessment:

Trade name of the construction product

Product family to which the construction product belongs

Manufacturer

Manufacturing plant

This European Technical Assessment contains

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

Deutsches Institut für Bautechnik

Poresta® BFA

Watertight covering kits for wet room floors and or walls

poresta systems GmbH Illbruckstraße 1 34537 Bad Wildungen DEUTSCHLAND

poresta systems GmbH Illbruckstraße 1 34537 Bad Wildungen DEUTSCHLAND

13 pages including 6 annexes which form an integral part of this assessment

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



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#### Specific part

#### 1 Technical description of the product

The watertight covering "Poresta Bodenebene Duschsysteme" is a waterproofing kit with watertight boards in combination with a liquid applied waterproofing for wet room floors and walls. It consists of the following components:

- Liquid polymer dispersion "Poresta® BFA"
- Primer

Poresta BFG

Schönox KH

Schönox KH fix

Schönox SHP

 Watertight boards on the basis of expanded polystyrene one side clutched with a mineral mortar Poresta® bodenebene Duschsysteme or with a dispersion coating Poresta® bodenebene Duschsysteme D

Pro	duct	Maiı	n dimensio	ns	Description
Poresta® bodenebene Dusch- systeme	for dispersion coating Poresta® bodenebene	Length [mm]	Width [mm]	Thick- ness [mm]	
	Duschsysteme D				
Poresta® BF KMK	Poresta® BF or Poresta® Spot	800-1800	800-1500	45-60	<ul> <li>with penetration for point-shaped floor gully in horizontal and vertical design</li> <li>horizontal construction height ≥ 115 mm</li> </ul>
Poresta® BF 95	Poresta® BF 95 d	800-1800	800-1500	30-40	- with penetration for point-shaped floor gully for a thickness of floor construction ≥ 95 mm
Poresta® BF 70	Poresta® BF 70 d or Poresta® Facilo	1200	1200	70	<ul> <li>with penetration for point-shaped floor gully for a thickness of floor construction ≥ 70 mm</li> </ul>
Poresta® Limit S	Poresta® Limit S d Poresta® Limit L d or Poresta® Ligna	900-2000	900-1200	45-65	with penetration for linear floor gully in horizontal and vertical design     one-sided slope
Poresta® Limit S 95	Poresta® Limit S 95 d	1200	1200	95	<ul> <li>with penetration for linear floor gully for a thickness of floor construction ≥ 95 mm</li> <li>one-sided slope</li> </ul>



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Poresta® BFR	Poresta® BFR d	1400	1200	120	with adapter for linear floor gully     one-sided slope
Poresta® BFR 75	Poresta® BFR 75 d	1200	1200	75	<ul> <li>with adapter for linear floor gully for a thickness of floor construction ≥ 75 mm</li> <li>one-sided slope</li> </ul>
Poresta® Slot	Poresta® Slot d	1200	1200	65	with penetration for linear floor gully at two edges
Poresta® Slot S	Poresta® Slot S d	1200-2000	1200	60-105	with penetration for linear floor gully at one edge
Poresta® Plus Ge	Poresta® Plus Ge d	1000	1000	50	for floors with in the wall integrated gullies

The geometry of the boards can be quadratic, rectangular, pentagonal or quadrantic. Prefabricated parts with maximum dimensions for length  $\leq$  2700 and width  $\leq$  2400 are possible. The boards for the floor are sloped in direction to the floor gully. Partially the floor gullies are inserted by manufacturing plant. The gully is not part of the kit.

Other dimensions of the boards for length and width can be cut from a board

- Adhesive for the boards "Poresta® Profi Flex Schnellkleber"/"Poresta® Profi Flex" and "PCI Bicollit® Classic" on the basis of cement mortar and "Ceresit CM UltraFlex" on the basis of a reaction resin according to EN 12004<sup>1</sup>
- Sealing details
  - Poresta® BF KMK Dichtband" or "Poresta KMK T" for joint sealing
  - "Poresta® BF KMK Dichtband-Innenecken" or "Poresta KMK TI"
  - "Poresta® BF KMK Dichtband-Außenecken" or "Poresta KMK TA"
  - "Poresta® BF KMK Dichtmanschette DN 10 DN 20 or " Poresta® KMK TM 10-20"
  - "Poresta® BF KMK Dichtmanschette DN 40 DN 50 or " Poresta® KMK TM 40-50"
  - "Poresta® BF KMK Dichtmanschette DN 70 DN 100 or " Poresta® KMK TM 70-100"
  - "Poresta® 3D T Wannenrand Dichtband"
  - "Poresta® 3D TI Wannenrand Dichtecke innen"
  - "Poresta® 3D Multi- Dichtecke"
- Sealing mass "Poresta KMK", "Poresta KMK 2K" and "Sopro TDS 823" according to EN 14891<sup>2</sup>

<sup>1</sup> EN 12004:2007

Adhesives for tiles - Requirements, evaluation of conformity, classification and designation

<sup>2</sup> FN 14891:2013

Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives - Requirements, test methods, evaluation of conformity, classification and designation

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Adhesives for tiles on the basis of cement mortar according EN 12004

Poresta® bodenebene Duschsysteme	Poresta® bodenebene Duschsysteme <b>D</b>
Sakret FFK	Sakret FFK
Schönox PFK plus	Schönox Q8
ARDEX X 77	ARDEX X 77
Mapei Adesilex P9	Mapei Adesilex P9
Sopro No. 1	Sopro No. 1

The kit is intended to be used on a substrate and under a wearing surface, e. g. tiles. The wearing surface and its 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, Annexes A2 - A3 the performance of the Product and Annexes A4 - A5 show the sealing details.

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

The intended use of the watertight covering kit 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 combination of watertight board and/or membrane is intended to be used on flexible substrates 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 PE, PP or ABS – with clamping ring and collar or prefabricated by PORESTA.

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

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 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.



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### 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 A2

### 3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance
Release of dangerous substances:	
Component: Tile adhesive (CE-marked)	according to EN 12004
Component: Sealing mass (CE-marked)	according to EN 14891
All other components	
Content, emission and/or release of dangerous su	bstances
Substance/s classified as EU-cat. Carc. 1A and/or 1B <sup>a)</sup>	The kit does not contain these dangerous
Substance/s classified as EU-cat. Muta. 1A and/or 1B <sup>a)</sup>	substances actively used. <sup>1)</sup>
Substance/s classified as EU-cat. Acute Tox. 1, 2 and/or 3; Repr. 1A and/or 1B; STOT SE 1 and/or STOT RE 1 a)	The kit does contain a substance classified as EU-cat. Acute Tox. 2, labelled with H330. <sup>b)</sup>
SVOC and VOC	no performance assessed.
Use scenarios regarding BWR 3 in accordance with	th EOTA TR 034: IA 1, IA 2
Vapour permeability	see Annex A2, declared value
Watertightness	see Annex A2
Crack bridging ability	see Annex A2, category
Bond strength	see Annex A2, category
Scratching resistance	see Annex A2, declared value
Joint bridging ability	see Annex A2, category
Impermeability at sealings	see Annex A2, category
Watertightness around penetration	see Annex A2, category
Dimensional stability	see Annex A2, declared value
Resistance to temperature	see Annex A2, category
Resistance to water	see Annex A2, category
Resistance to alkalinity	see Annex A2, category
Resistance to mechanical wear	see Annex A2, declared value
Cleanability	see Annex A2, declared value
Reparability	see Annex A2, statement of the manufacturer
Thickness	see Annex A2, declared value
Applicability	see Annex A2, declaration

a) In accordance with Regulation (EC) No 1272/2008.

<sup>&</sup>lt;sup>b)</sup> The assessment is based on a detailed manufacturer's product declaration for "Poresta<sup>®</sup>BFA".



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#### 3.3 Safety and accessibility (BWR 4)

Essential characteristic	Performance
Slipperiness	see Annex A2, declared value

- 3.4 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 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 ETAG 022 used as EAD the applicable European legal act is: 2003/665/EC The system to be applied is: 2+

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

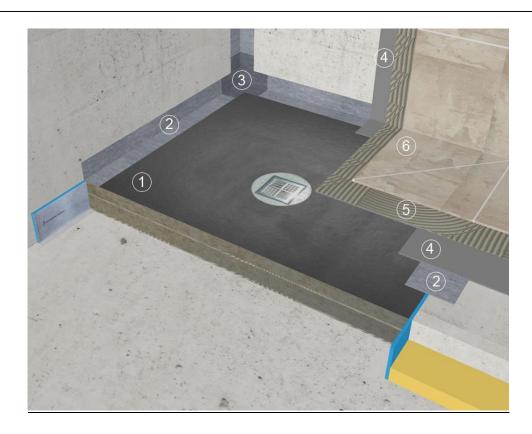
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 28 June 2018 by Deutsches Institut für Bautechnik

BD Dipl.-Ing. Andreas Kummerow beglaubigt:
Head of Department Hannoun





- 1 Watertight board "Poresta® bodenenbene Duschsysteme D" or "Poresta® bodenenbene Duschsysteme" or other undergrounds
  2 Sealing tape "Poresta® KMK T" or "Poresta® 3D T Wannenrand Dichtband"
- 3 Sealing tape inner corner
- 4 Sealing mass for Details "Poresta® BFA"
- 5 Tile adhesive (see Annex A3)
- 6 Tiles (not part of the kit)

Poresta® BFA poresta systems GmbH	
System built-up	Annex A1

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		For kits based on watertight boards	For liquid applied coverings
Applicable to the watertight coveri	ng kit:		
Thickness of the watertight boards	-	20 to 120 mm	./.
Working life		25 y	ears
Reaction to fire	EN 13501-1	clas	ss E
Statement on dangerous substance		see sec	tion 3.2
Water vapour diffusion resistance fact $(23 \text{ °C} - 50/93 \text{ % r.h.})$	tor	S <sub>D</sub> ≈ 9.46m and	S <sub>D</sub> ≈18.7m
Water tightness		wate	rtight
Impermeability at sealings		watertight: category 2	not relevant
Scratch resistance		not re	levant
Dimensional Stability		all directions <+/- 1 %	not relevant
Resistance to mechanical wear		not re	levant
Cleanability		not re	levant
Reparability		nŗ	oa
Slipperiness		nı	oa
Applicability		appli	cable
Levels of categories according ET	AG 022 with re	elation to:	
Crack bridging ability		category 1: 0.4 mm	category 1: 0.4 mm category 2: 0.75 mm
Bond strength**		category 2: ≥ 0.3 MPa or category 3: ≥ 0.5 MPa	category 2: ≥ 0.5 MPa
Joint bridging ability		categ	ory 2
Water tightness around penetrations		watertight:	category 2
Resistance to temperature**		category 2: ≥ 0.3 MPa or category 3: ≥ 0.5 MPa	category 2: ≥ 0.5 MPa
Resistance to water**		category 2: ≥ 0.3 MPa or category 3: ≥ 0.5 MPa	category 2: ≥ 0.5 MPa
Resistance to alkalinity**		category 2: ≥ 0.3 MPa or category 3: ≥ 0.5 MPa	category 2: ≥ 0.5 MPa

<sup>\*\*</sup>For details see Annex A3

Poresta® BFA poresta systems GmbH	
System classification	Annex A2

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categories	For "Poresta Bodenebene Duschsysteme Liquid applied Poresta BFA D"		ature water Alkalinity strength temperature water Alkalinity	pa,		≥ 0.5 Mpa	cat. 2	≥ 0.5 Mpa	cat. 3	ed					J. J. J. J.		1. 1. 1. 1. 1. 1. 1. 1.			
Poresta E		to	water			Ира	2								J.		J.			
	uid applied l	Resistance	temperature			≥ 0.51	cat.								J.		J.			
	ρil	Bond	strength												7		J.			
	steme		kalinity														J.			
es	Duschsy							: 0.5 Mpa	at. 3								Τ.			
Assessment categories	ita Bodenebene D"	Resistance to	temperature v	≥ 0.3 Mpa,	cat. 2			^1		≥ 0.5 Mpa	cat. 3						J.			
Asse	For "Pores	Bond	strength				> 0.5	Мра	cat. 3								J.			
	systeme"		Alkalinity	≥ 0.3 Mpa,	cat. 2	≥ 0.5 Mpa	cat. 3				≥ 0.3 Mpa,	cat. 2			Ţ			≥ 0.3 Mpa,	•	cat. 2
	ne Duschs		water	≥ 0.5	Mpa	cat. 3			≥ 0.3	Мра,	cat. 2	≥ 0.5	Мра	cat. 3	1.		≥ 0.3	Mpa,	•	cat. 2
	For "Poresta Bodenebene Duschsysteme"	Resistance to	temperature	≥ 0.2 Mpa,	cat. 1	≥ 0.3 Mpa,	cat. 2		≥ 0.2 Mpa,	cat. 1		≥ 0.3 Mpa,	cat. 2		J.		≥ 0.2 Mpa,	cat. 1		
	For "Pon	Bond	strength			≥ 0.3	Мра	cat. 2							J.		≥ 0.3	Мра	•	cat. 2
		Adhesives		Mapei	Adesilex P9	Sopro's	No1	Flexkleber	Sakret FFK			ARDEX X	77		Schönox	Q8		PFK PLUS		

assessed.
are
For the adhesives to the substrate followings categories are assessed.
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Adhesives	Bond strength	Resistance to	
		temperature	alkalinity
PCI Bicollot Classic	≥ 0.5 Mpa	≥ 0.5 Mpa	≥ 0,3 Mpa
Ceresit CM 77 Ultraflex	category 3	category 3	category 2

Poresta® BFA
poresta systems GmbH

System classification

Annex A3

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Example of a watertight board "Poresta BF xx"



Sealing tape Dichtungsband "Poresta® KMK T"



Sealing sleeve
"Poresta KMK TM xx-xx"



Dichtband-Innenecken "Poresta® KMK TI"



Ingoing Corner

Dichtungsmanschette " Poresta® 3D TI

Wannenrand Dichtecke innen"

Poresta® BFA	
poresta systems GmbH	
Components	Annex A4

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Outgoing Corner "Poresta® KMK TA"



Multi Corner
"Poresta® 3D-Mutlti-Dichtecke"



**Sealing tape**" Poresta® 3D- T Wannenrand Dichtband "

Poresta® BFA poresta systems GmbH

Components

Annex A5





#### 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.

Poresta® BFA poresta systems GmbH	Annex B
Intended use Specifications	

**Z55678.17** 8.05.03-41/16