

Approval body for construction products
and types of construction

Bautechnisches Prüfamt

An institution established by the Federal and
Laender Governments



European Technical Assessment

ETA-13/0508
of 1 June 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

KNAUF Sealing Compound

Product family
to which the construction product belongs

Liquid applied watertight covering for wet rooms with
wearing surface

Manufacturer

Knauf Bauprodukte GmbH & Co. KG
Am Bahnhof 7
97346 Iphofen
DEUTSCHLAND

Manufacturing plant

Produktionsanlage 97346

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-13/0508 issued on 24 May 2013

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Specific part

1 Technical description of the product

The watertight covering "KNAUF Sealing compound" is a kit. It consists of the following components:

- Primer "KNAUF Special bonding primer", "KNAUF Deep primer" or "KNAUF Sealing primer" on the basis of a polymer dispersion
- one-component liquid waterproofing membrane "KNAUF Sealing Compound" on the basis of styrol-butadien
- sealing tape Type "KNAUF Sealing tape" or "KNAUF Sealing membrane tape"
- sealing ingoing and outgoing corners Type "KNAUF Sealing inner corner" and "KNAUF Sealing outer corner" or "KNAUF Sealing membrane inner corner" and "KNAUF Sealing membrane outer corner "
- sealing sleeves for walls "KNAUF Sealing collar"
- sealing sleeves for floor gullies "KNAUF Floor sealing collar" and "KNAUF Butyl sealing collar"
- adhesives according to EN 12004¹:

KNAUF Flexkleber eXtra	KNAUF Marmor- & Granitkleber
KNAUF Mittelbettkleber XXL	KNAUF Flexkleber schnell

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.

The system setup of the product is given in Annex A1. Annex A2 and A3 show 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.

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

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.

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
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, category
Watertightness around penetrations	see Annex A1, category
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

² The evaluation based on the manufactured's declarations.

Cleanability	see Annex A1
Reparability	see Annex A1, statement of the manufacturer
Thickness	see Annex A1
Applicability	see Annex A1, description

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

^{b)} The assessment is based on a detailed manufacturer's product declaration.

3.3 Safety and accessibility (BWR 4)

Essential characteristic	Performance
Slipperiness	see Annex A1

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:

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

In accordance with ETAG 022 used as EAD, the applicable European legal act is: 2003/655/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 applicable European legal act is 2001/596/EC.

The system to be applied is: 3

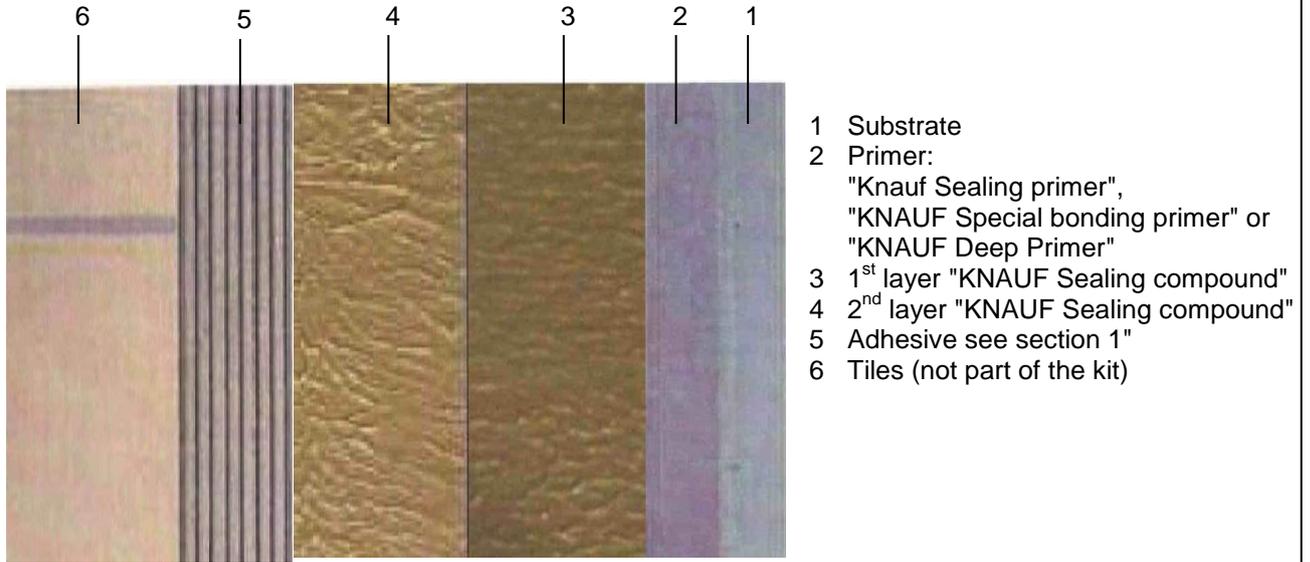
5 Technical details necessary for the implementation of the AVCP system, as provided for in the applicable EAD

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 1 June 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	see section 3.2
Crack bridging ability	category 1: 0.4 mm
Bond strength	category 2: ≥ 0.5 MPa
Joint bridging ability	category 2: wasserdicht
Water tightness around penetrations	category 2: wasserdicht
Resistance to water	category 2: ≥ 0.5 MPa
Resistance to alkalinity	category 2: ≥ 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 3.2
Water vapour diffusion resistance factor at 23 °C – 50/93 % r.h.	$s_d = 2.3$ m with "KNAUF Sealing Compound (1000 g/m ²)" $s_d = 79$ m with "KNAUF Sealing Primer (460 g/m ²), "KNAUF Sealing Compound (1000 g/m ²)"

Water tightness acc. to EN 14891	watertight
Scratch resistance	not relevant
Resistance to mechanical wear	not relevant
Cleanability	not relevant
Reparability	reparable
Slipperiness	no performance assessed
Applicability	applicable
Resistance to temperature	category 2: ≥ 0.5 MPa

KNAUF Sealing Compound Knauf Bauprodukte GmbH & Co. KG	Annex A1
System built-up, levels of use categories and performances of the product	

Sealing tape:

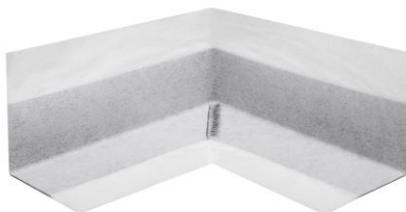


"KNAUF Sealing tape"
width 120 mm

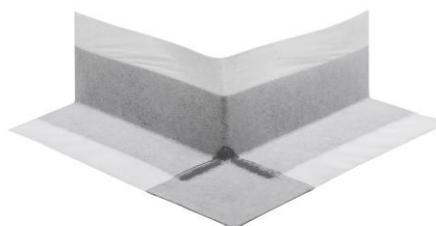


"KNAUF Sealing membrane tape"
width 120 mm

Ingoing/outgoing corners:



"KNAUF Sealing inner corner"
leg length 100 or 140 mm



"KNAUF Sealing outer corner"
leg length 75 or 140 mm



"KNAUF Sealing membrane inner corner"
leg length 120 mm



"KNAUF Sealing membrane outer corner"
leg length 105 mm

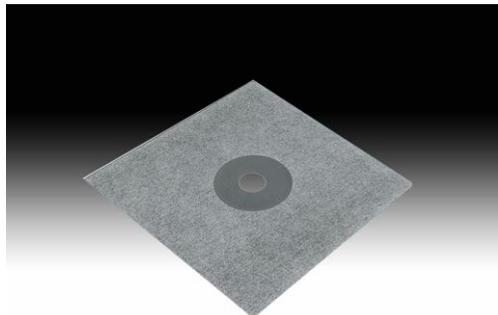
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KNAUF Sealing Compound
Knauf Bauprodukte GmbH & Co. KG

Components

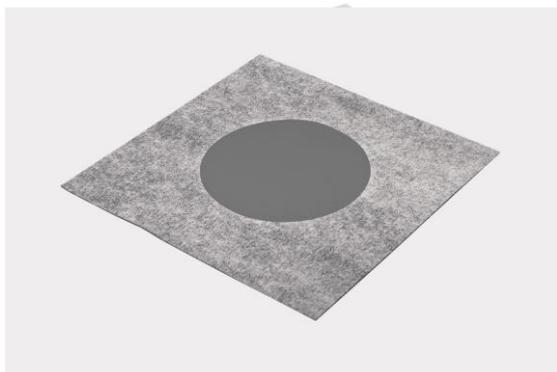
Annex A2

Sealing sleeves for walls:



"KNAUF Sealing collar" 100 x 100 mm, 150 x 150 mm, 200 x 200 mm

Sealing sleeves for floors:



"KNAUF Floor sealing collar" 350 x 350 mm



"KNAUF Butyl sealing collar" 370 x 370 mm

Tile adhesives:

KNAUF Flexkleber eXtra

KNAUF Mittelbettkleber XXL

KNAUF Marmor-&Granitkleber

KNAUF Flexkleber schnell

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KNAUF Sealing Compound
Knauf Bauprodukte GmbH & Co. KG

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.

KNAUF Sealing Compound Knauf Bauprodukte GmbH & Co. KG	Annex B
Intended use Specifications	