

European Technical Assessment

ETA 16/0086
of 03/12/2019

General Part

**Technical Assessment Body issuing the
European Technical Assessment:**

RISE Research Institutes of Sweden AB

Trade name of the construction productBostik Tätskiktssystem VTvF-X och VTgF-X
and NAX B Pro WR Foil System**Product family to which the construction
product belongs**Watertight covering kits for wet room walls
and floors**Manufacturer**Bostik AB
Strandbadsvägen 22
SE-251 09 Helsingborg, Sweden
www.bostik.se**Manufacturing plant(s)**Bostik AB
Strandbadsvägen 22
SE-251 09 Helsingborg, Sweden**This European Technical Assessment
contains**

9 pages

**This European Technical Assessment is
issued in accordance with regulation
(EU) No 305/2011, on the basis of**ETAG 022 Part 2, edition November 2010,
used as European Assessment Document
(EAD)

This version replaces

ETA 16/0086, issued on 19/09/2016

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Specific parts

1 Technical description of the product

General

The European Technical Assessment (ETA) applies to the construction kit Bostik Tätskiktssystem VTvF-X and VTgF-X or NAX B Pro WR Foil System is a flexible sheet membrane kit which serves as a watertight covering for wet room floors and walls beneath a wearing surface. The designation VTvF-X is used for walls and VTgF-X for floors.

The kit is constructed as follows:

Bostik Tätskiktssystem VTvF-X and VTgF-X or NAX B Pro WR Foil System is adhered to the substrate. The jointing is made by over lapping or by mounting the membrane, edge to edge, and sealing the joint with a joint sealing strip. Reinforcement of inner and outer corners, over joints in the substrate, around pipe penetrations, floor gullies and along the connection between floor and wall. Layer of ceramic tiles adhered to the kit with cement based tile adhesive.

The kit consists of the following components:

Membrane

Bostik Tätskiktssystem LX or NAX B Pro WR Foil is a 3-ply waterproof membrane consisting of polypropylene. The thickness of the membrane is 0,50 mm.

Reinforcement

The reinforcements and sealing components belonging to the kit is:

For joints	Bostik Tätskiktsremsa or NAX B Pro WR Flex Strip
Pipe sealing	Bostik Rörmanschetter PU or NAX B Pro WR PSC, available in various sizes depending on the pipe diameter
For floor gullies	Bostik Brunnsmanschett or NAX B Pro WR DSC 3737
For inner corners	Bostik Tätskiktinnerhörn or NAX B Pro WR Ic
For outer corners	Bostik Tätskiksytterhörn or NAX B Pro WR Ec

Adhesives

Adhesives for the membrane to adhere to the substrate, covered by this ETA are:

- Bostik Membrane or NAX B Pro WR Protect Two
- Bostik Startac Combi Golv- och Vägglim
- Bostik Foil Seal Cement or NAX B Pro WR 2-Comp
- Bostik Foil Seal Grab
- Bostik Foiltac 1:C

Bostik Foil Seal Cement, NAX B Pro WR 2-comp, Bostik Foil Seal Grab or Bostik Foiltac 1:C is used in jointing of folio and overlapping.

Adhesive for ceramic tiles covered by this ETA is:

- Bostik 8010 Combi or NAX B Pro Multi Flex Adhesive
- Bostik 8020 Floor & Wall
- Bostik 8070 Light LT
- Bostik 8050 White DF
- Bostik 8015 Combi Light or NAX B Pro Multi Flex Light Adhesive

Manufacturing

The manufacturer may only use materials stated in the Manufacturers Technical Dossier (MTD).

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with RISE Research Institutes of Sweden AB which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to RISE Research Institutes of Sweden AB before the changes are introduced. RISE Research Institutes of Sweden AB will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

Design and dimensioning

The fitness for the respective use of the watertight membrane results from the characteristic values and categories.

The supplementing statements of the manufacturer stated in the MTD for design and application of the watertight system for creating a watertight covering under wearing surface for walls in indoor wet areas shall be considered.

Installation

The fitness for use of the watertight membrane can be assumed only, if the installation is carried out according to the installation instructions stated in the MTD by the manufacturer.

Indications to the manufacturer

Packaging, transport and storage

Information on packaging, transport and storage are given in the MTD.

Use, maintenance, repair

Information on packaging, transport and storage are given in the MTD.

2 Specification of the intended use(s) in accordance with the applicable European Assessment Document (hereinafter EAD)

The kit is used as watertight covering for wet room walls and floors with additional wearing surface. The covering may be used on substrates of boards or concrete, i.e. moisture sensitive substrates which are flexible and with jointing and susceptible to cracking.

The kit can be used with the following types of floor gullies:

Circular gullies made from stainless steel with glue flange or plastic type PP, with clamping ring and with glue flange.

To be used in indoor applications, where the sheet based applied kit is not exposed to temperatures (i.e. temperature of structure) below 5 °C and above 40 °C, in the following uses:

- Wall and floors surfaces with only occasional direct exposure to water, e.g. at a good distance from shower or bathtub.
- Walls and floors in shower areas or around bathtubs used for a few showers daily, e.g. in ordinary dwellings, multi-family houses and hotels
- Wall and floors 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 provisions made in this European Technical Assessment are based on an assumed working life of the Bostik Tätskiktssystem VTvF-X and VTgF-X or NAX B Pro WR Foil System of 25 years, provided that they are subject to appropriate installation, use and maintenance. 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 Essential characteristics and their performance

		Characteristic	Performance
BWR 1	Mechanical resistance and stability		Not relevant
BWR 2	Safety in case of fire	Reaction to fire	NPD (Class F)
BWR 3	Hygiene, health and the environment	Release of dangerous substances	A written statement from the applicant has been provided and the product does not include any substances listed EG 1907/2006 REACH
		Water vapour permeability (EN ISO 12572, 93→50 % RH)	NPD
		Water vapour permeability (EN ISO 12572, 100→75 %RH)	S _d -value = 92 m ≈ 3 446 000 s/m
		Water tightness	Watertight (150 kPa /7 Days)
		Crack bridging ability	Category 3 (1,5 mm)
		Bond strength on concrete substrate	Category 1 (≥ 0,2 MPa) or Category 2 (≥ 0,3 MPa)
		Bond strength on gypsum board	Category 2 (≥ 0,3 MPa)
		Scratching resistance	Not relevant
		Joint bridging ability	Category 2 (watertight)
		Water tightness around penetrations	Annex A Category 2 Watertight Annex F Category 2 Watertight
		Joint strength using: BostikFoil Seal Cement + Bostik Tätskiktsremsa See chapter 1 for alternative product name	Longitudinal direction: 190 N/50 mm Cross direction: 210 N/50mm
		Joint strength using: Bostik Foil Seal Grab + Bostik Tätskiktsremsa	Longitudinal direction: 200 N/50 mm Cross direction: 320 N/50mm
		Joint strength using: Bostik Foil 1:C + Bostik Tätskiktsremsa	Longitudinal direction: 209 N/50 mm Cross direction: 341 N/50mm
Flexibility	Pass		

			No cracks Ø10 mm mandrel
BWR 4	Safety in use	Slipperiness	Not relevant
BWR 5	Protection against noise		Not relevant
BWR 6	Energy economy and heat retention		Not relevant
BWR 7	Sustainable use of natural resources		Not relevant
General Aspects		Dimensional stability	Longitudinal direction: -0,3 % Cross direction: -0,2 %
		Resistance to temperature	Deviation from unaged material: Tensile strength Longitudinal direction: -1 % Cross direction: -10 % Tensile elongation Longitudinal direction: -12 % Cross direction: -2 %
		Resistance to water	Category 1 ($\geq 0,2$ MPa) or Category 2 ($\geq 0,3$ MPa)
		Resistance to alkalinity	Deviation from unaged material: Tensile strength Longitudinal direction: -0,14 % Cross direction: -4,3 % Tensile elongation Longitudinal direction: 5,6 % Cross direction: 9,7%
		Resistance to chemical agents	NPD
		Resistance to biological agents	NPD
		Reparability	NPD
		Thickness	0,50 mm
		Applicability	Applicable

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

According to the decision 2003/655/EC - Commission decision of date 12 September 2003, published in the Official Journal of the European Union (OJEU) L231/12 of 17/09/2003, of the European Commission the system(s) of assessment and verification of constancy of performance (see Annex V to the regulation (EU) No 305/2011) given in the following table apply:

Product(s)	Intended use(s)	Level(s) or class(es)	System(s)
Watertight covering kits for wet room floors and walls	For building works	-	2+

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

5.1 Factory production control

The manufacturer shall exercise permanent internal control of production. All the elements, requirements and provisions adopted by the manufacturer shall be documented in a systematic manner in the form of written policies and procedures, including records of results performed. This production control system shall insure that the product is in conformity with this European Technical Assessment .

The manufacturer may only use constituent materials stated in the technical documentation of this European Technical Assessment.

The factory production control shall be in accordance with the Control plan which is part of the technical documentation of this European Technical Assessment. The control plan is laid down in the context of the factory production control system operated by the manufacturer and deposited within RISE Research Institutes of Sweden AB.

5.2 Other tasks for the manufacturer

The manufacturer shall, on the basis of a contract, involve a body which is approved for the tasks referred to in section 3.1 in order to undertake the actions laid down in section 4.3. For this purpose, the control plan referred to in sections 4.2.1.1 and 4.2.2 shall be handed over by the manufacturer to the approved body or bodies involved.

The manufacturer shall make a declaration of conformity, stating that the construction product is in conformity with the provisions of this European Technical Assessment.

5.3 Tasks for the approved bodies

The approved body (bodies) shall perform the

- initial type testing of the product,
- initial inspection of factory and of factory production control,
- continuous surveillance, assessment and approval of factory production control,

in accordance with the provisions laid down in the control plan.

The approved body shall retain the essential points of its actions referred to above and state the results obtained and conclusions drawn in a written report.

The approved certification body involved by the manufacturer shall issue an EC certificate of conformity of the product stating the conformity with the provisions of this European Technical Assessment.

In cases where the provisions of the European Technical Assessment and its "control plan" are no longer fulfilled the certification body shall withdraw the certificate of conformity and inform RISE Research Institutes of Sweden AB without delay.

Issued in Borås on 03.12.2019
By RISE Research Institutes of Sweden AB

Stefan Coric
Certification Manager