



ETA-Danmark A/S
Kollegievej 6
DK-2920 Charlottenlund
Tel. +45 72 24 59 00
Fax +45 72 24 59 04
Internet www.etadanmark.dk

Authorised and notified according
to Article 29 of the Regulation (EU)
No 305/2011 of the European
Parliament and of the Council of 9
March 2011

MEMBER OF EOTA



European Technical Assessment ETA-09/0247 of 2019/03/19

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:

Schönox HA Watertight covering kit

Product family to which the above construction product belongs:

Liquid applied watertight covering kit for wet room floors and walls

Manufacturer:

Sika Deutschland GmbH
Alfred-Nobel-Strasse 6
D-48720 Rosendahl
Telephone + 49 2547 910-0
Telefax +49 2547 910-101
Internet www.schoenox.de

Manufacturing plant:

SCHÖNOX GmbH
Alfred-Nobel-Strasse 6
D-48720 Rosendahl

This European Technical Assessment contains:

9 pages including 1 annex which form an integral part of the document

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

Guideline for European Technical Approval ETAG No 022 Watertight covering kits for wet room floors and/or walls, Part 1: Liquid applied coverings with or without wearing surface, Edition April 2007, used as European Assessment Document (EAD).

This version replaces:

The ETA with the same number issued on 2015-08-19

Translations of this European Technical Assessment in other languages shall fully correspond to the original issued document and should be identified as such.

Communication of this European Technical Assessment, including transmission by electronic means, shall be in full (excepted the confidential Annex(es) referred to above). However, partial reproduction may be made, with the written consent of the issuing Technical Assessment Body. Any partial reproduction has to be identified as such.

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product

General

Schönox HA watertight covering kit for wet rooms is a one component system consisting of a liquid membrane on plastic dispersion base and associated components, such as primer, reinforcements and adhesives and serves as a watertight covering for wet room floors and walls beneath a wearing surface.

The kit consists of the following components:

Primer

Schönox KH, which is a single component synthetic resin dispersion primer, and Schönox KH Fix, or a layer of SHP, which is a single component solvent free acrylate dispersion primer for various substrates. These primers are not intended to have a significant additional function in limiting the water vapour permeability of the kit.

Alternatively, for applications where the primer is intended to have a significant additional function in limiting the water vapour permeability of the kit Schönox SPR Primer can be used, which is a single component polyvinylidene chloride dispersion.

Membrane

The membrane is a one component system consisting of Schönox HA liquid membrane on plastic dispersion base.

Reinforcement

The reinforcement is Schönox ST Sealing Tape, Wetstop KL, Schönox ST BT Butyl tape, Wetstop Tätband Butyl or Wetstop SH or Vinkelband 3647/6388, which is used in connection between walls, in corners and around penetrations. Schönox ST or Wetstop KL or Vinkelband 3647/6388 is embedded in layers of Schönox HA membrane whereas Schönox ST BT Butyl tape, Wetstop Tätband Butyl or Wetstop SH are self-adhesive. Readymade fitting pieces Schönox ST-IC or Wetstop PC for sealing inside corners and Schönox ST-EA or Wetstop PC-E for sealing external angles are embedded in layers of Schönox HA membrane. Reinforcement around pipe penetrations in floors and wall is established with Schönox ST D or Wetstop MP collars, which are available in various sizes depending on the pipe diameter. For sealing penetrations around the gullies Schönox ST-FC or Schönox ST-BC or

Wetstop MG or Schönox ST-BC-L or Wetstop MG-L sealing cuff is used, depending on the working principle and installation principle of the gully.

Adhesives

Adhesives covered by this ETA is SCHÖNOX SEK, SCHÖNOX SLK Plus, SCHÖNOX Q9, SCHÖNOX Q9W, SCHÖNOX Q8, SCHÖNOX Q6, SCHÖNOX Q6W, SCHÖNOX Q2, SCHÖNOX Q2W, SCHÖNOX Q2st, SCHÖNOX PFK Plus, SCHÖNOX PFK White, SCHÖNOX PFK Rapid, SCHÖNOX PFK, SCHÖNOX SFK 3631, SCHÖNOX SFK RAPID, SCHÖNOX SFK PLUS, SCHÖNOX CFK, SCHÖNOX TT S8, SCHÖNOX TT S8 Rapid, SCHÖNOX TT Flex Dur, SCHÖNOX TT BASIC, SCHÖNOX HTL, SCHÖNOX TLX

Alternative wearing surface

The wearing surface can also be made up from:

- **Sikagard®-403W** consisting of a layer of Sika Reemat Lite embedded in Schönox HA. After drying approx. 280 g/m² Sikagard-403W thinned with 5 % water is applied. The wearing surface is completed with two 140 g/m² layers of Sikagard® Wallcoating Systems
- **Sikafloor®-330** consisting of 2800 g/m² Sikafloor®-330 applied in two coatings. The wearing surface is completed with the Sika Comfortfloor PS-23 system.
- **Sikafloor®-3240** consisting of 3600 g/m² Sikafloor®-3240 applied in two coatings. Quartz sand 0,7-1,2 mm is spread out evenly, by hand and by light brushing, over the still fresh Sikafloor®-3240. The wearing surface is completed with the Sika Multiflex PB-32 system, Sikafloor-378 or Sikafloor-390N.

Kit

The kit is constructed as follows:

- a layer of minimum 40 - 75 g/m² Schönox KH (depending on substrate) or 150 g/m² Schönox KH Fix (depending on substrate) and a layer Schönox SHP or 2 layers Schönox SPR Primer (150 g/m² + 100 g/m²).
- reinforcement of in- and outgoing corners in walls, over joints or cracks in the substrate, along the connection between floor and wall with the Schönox or Wetstop sealing tape, which is embedded in a layer of Schönox HA membrane or with the self-adhesive synthetic rubber reinforcement tape. Reinforcement

around pipe penetrations in floors and wall is established with Schönox ST D or Wetstop MP collars, which are available in various sizes depending on the pipe diameter. For gullies the Schönox ST FC, - ST BC L or – ST-BC or Wetstop MG or Wetstop MG L is used depending on the working principle and installation principle of the gully

- at least 1130 g/m² one component Schönox HA distributed evenly over the surface in at least two applications
- a layer of ceramic tiles adhered to the kit with cement based or dispersion based tile adhesive.

Note that the above-mentioned amount of Schönox HA corresponds to a dry film thickness of 0,4 mm (see section 3.7)

2 Specification of the intended use in accordance with the applicable EAD

The intended use of the covering kit is:

1. watertight covering for use beneath a wearing surface, normally in the form of tiles, on substrates of wood based panels, gypsum boards, fiber cement boards, cement bonded boards, watertight boards made from a polystyrene core with a cement based fiberglass reinforced covering and 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:

a) Drain with fleece flange; b) Drain with a plastic or metal flange and screwed clamping ring; c) Channel drain stainless steel with rear wall clip or channel drain with a plastic flange; d) Corner drain stainless steel.

2. Indoor applications, where the liquid applied kit is not exposed to temperatures (i.e. temperature of structure) below 5 °C and above 40 °C, in the following uses:

- Floor and wall surfaces with only occasional direct exposure to water, e.g. at a good distance from shower or bathtub.
- Floors and walls in shower areas or around bathtubs used for a few showers daily, e.g. in ordinary dwellings, multi-family houses and hotels
- Floor and 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 provisions made in this European Technical Assessment are based on an assumed intended working life of the kit of 25 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, 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

Characteristic	Assessment of characteristic
3.2 Safety in case of fire (BWR2)	
Reaction to fire	Euroclass E
3.3 Hygiene, health and the environment (BWR3)	
Dangerous substances	The kit does not contain/release DS specified in TR 034, dated March 2012 *)
Vapour permeability	<p>The vapour permeability of the HA membrane with primer when tested at 23°C and RH 93 → 50 %:</p> <p>The s_d value of the kit without primer applied to the gypsum board is 18,7 m, which is equivalent to $Z_v = 701.250$ s/m with 1130 g/m² HA membrane in two applications</p> <p>The vapour permeability of the HA membrane with SPR primer when tested at 23°C and RH 75 → 100 %:</p> <p>The s_d value of the kit with primer applied to the gypsum board is 57,7 m, which is equivalent to $Z_v = 2.162.691$ s/m with 250 g/m² Schönox SPR Primer in two applications and 1350 g/m² HA membrane in two applications</p> <p>The s_d value of the kit with primer applied to the gypsum board is 51,4 m, which is equivalent to $Z_v = 1.925.444$ s/m with 250 g/m² Schönox SPR Primer in two applications and 1130 g/m² HA membrane in two applications</p>
Moisture resistance	
Water tightness	Watertight according to EN 14891
Crack bridging ability	<p>1,13 kg/m² membrane HA applied in two layers (equivalent thickness of membrane = 0,4 mm) Assessment category 1: Crack width 0,4 mm</p> <p>1,35 kg/m² membrane HA applied in two layers (equivalent thickness of membrane = 0,5 mm) Assessment category 2: Crack width 0,75 mm</p>
Bond strength	<p>Schönox HA membrane and the each of the tile adhesives mentioned in section 1 of this ETA on a concrete substrate all comply with Assessment category 2: Bond strength > 0,5 MPa</p> <p>Schönox HA membrane and the each of the tile adhesives mentioned in section 1 of this ETA on substrates**) of calcium silicate boards, gypsum boards,</p>

Characteristic	Assessment of characteristic
	fibre cement boards, cement based boards and watertight boards made from a polystyrene core with a cement based glass fibre reinforced covering comply with Assessment category 2: Bond strength > 0,5 Mpa
Scratching resistance	Schönox HA membrane in combination with wearing surface either Sikagard®-403W, Sikafloor®-330 or Sikafloor®-3240 comply with Assesment category 2: Watertight
Joint bridging ability	Schönox HA membrane in combination with either Schönox ST Sealing Tape, Schönox ST-BT Butyl tape, Wetstop Tätband Butyl, Wetstop SH or Wetstop KL comply with Assesment category 2: Watertight
	Schönox HA membrane in combination with either Schönox Vinkelband 3647/6388 comply with Assesment category 1: Watertight
Water tightness around penetrations	Schönox HA membrane with reinforcements as described in section 1 of this ETA***) comply with Assesment category 2: Watertight
3.7 Related aspects of durability and serviceability	
Resistance to temperature	Assessment category 2: Bond strength > 0,5 MPa Crack bridging ability after ageing: 1,13 kg/m ² membrane HA applied in two layers (equivalent thickness of membrane = 0,4 mm) Assessment category 1: Crack width 0,4 mm 1,35 kg/m ² membrane HA applied in two layers (equivalent thickness of membrane = 0,5 mm) Assessment category 2: Crack width 0,75 mm
Resistance to water	Assessment category 2: Bond strength > 0,5 MPa
Resistance to alkalinity	Assessment category 2: Bond strength > 0,5 MPa
Repairability	Repairable
Thickness	The required weight (wet) of the Schönox HA membrane is 2,83 kg/m ² pr. mm dry thickness of the layer The minimum thickness of the membrane shall be 0,4 mm.
Applicability	Applicable
3.8 Sustainable use of natural resources (BWR7)	No performance determined

*) In accordance with <http://europa.eu.int/-/comm/enterprise/construction/internal/dangsub/dangmain.htm> In addition to the specific clauses relating to dangerous substances contained in this European Technical Assessment, there may be other requirements applicable to the products falling within its scope (e.g. transposed European legislation and national laws, regulations and administrative provisions). In order to meet the provisions of the EU Construction Products Directive, these requirements need also to be complied with, when and where they apply.

**) In accordance with the provisions of ETAG 022 part 1 – Annex A, the kit has been tested with the following types of floor gullies; a) Drain with fleece flange; b) Drain with a plastic or metal flange and screwed clamping ring; c) Channel drain stainless steel with rear wall clip or channel drain with a plastic flange; d) Corner drain stainless steel.

3.9 Aspects related to the performance of the product

The European Technical Assessment is issued for the product based on agreed data/information, deposited with ETA-Danmark, 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 ETA-Danmark before the changes are introduced. ETA-Danmark will decide whether such changes affect the ETA and consequently the validity of the CE marking based on the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The performance of the watertight membrane kit 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 floors and walls in indoor wet areas shall be considered

The performance of the watertight membrane can be assumed only, if the following aspects are considered:

- only those components which are specified components of the kit can be used,
- the appropriate tools shall be used and adjuvant, precautions shall be taken,
- inspecting the substrate surface for cleanliness and correct treatment,
- inspection in the process of establishing the kit and of the finished watertight membrane and documentation of the results.

The information as to the handling of waste products shall be observed.

It is the manufacturer's responsibility to make sure that all those who utilize the kit will be appropriately informed about the specific conditions according to this ETA and the not confidential parts of the MTD deposited to this ETA

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision 2003/655/EC of the European Commission as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 2+.

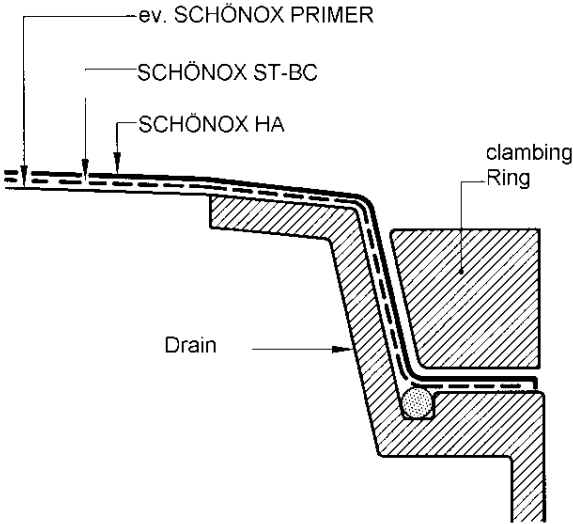
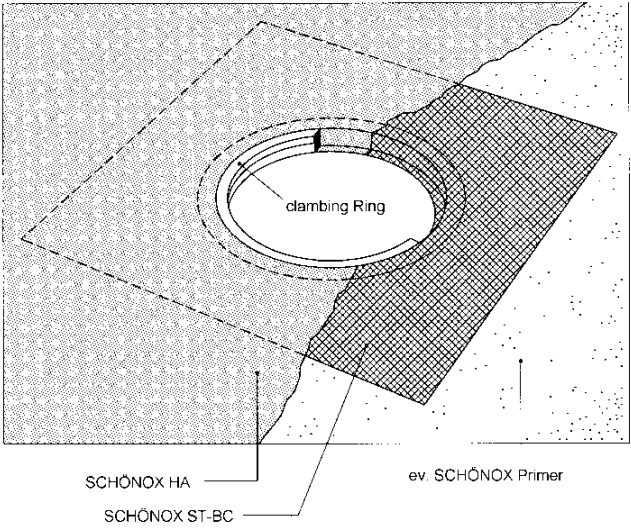
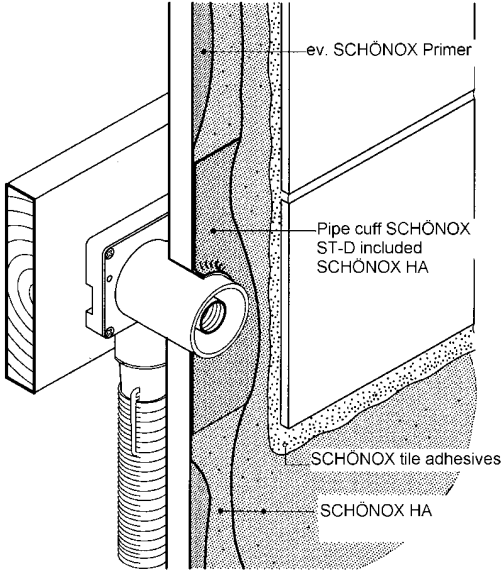
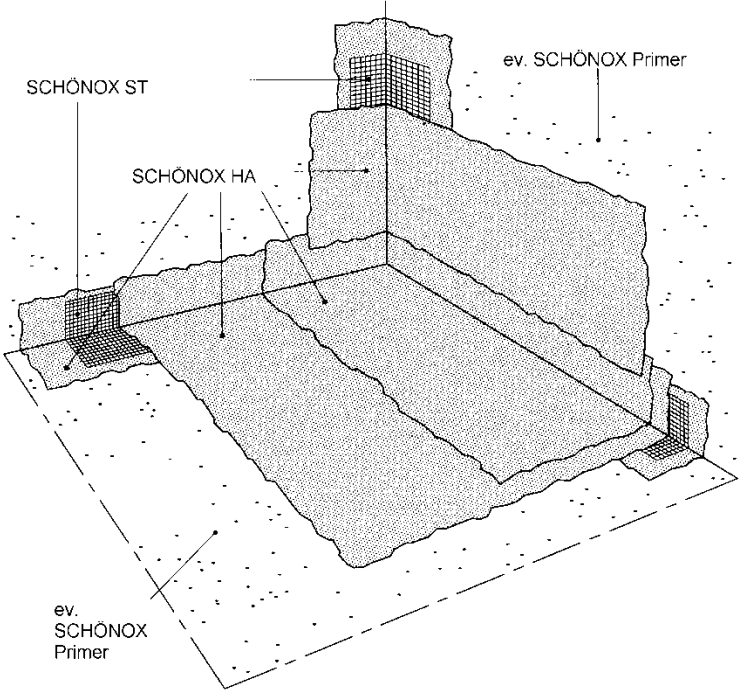
5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2019-03-19 by



Thomas Bruun
Managing Director, ETA-Danmark



Schönox HA watertight covering kit	Annex 1 of European Technical Assessment ETA-09/0247
Principle build-up of the kit	