



ETA-Danmark A/S
Göteborg Plads 1
DK-2150 Nordhavn
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-16/0277 of 2023/01/06

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 2K DS RAPID 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 Services AG
Tüffenwies 16
8064 Zürich
Switzerland
Internet www.sika.com

Manufacturing plant:

Sika Deutschland 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:

EAD 030352-00-0503 Liquid applied watertight covering kit for wet room floors and/or walls

This version replaces:

The ETA with the same number issued on 2016-05-19

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 2K DS RAPID membrane is a two component system consisting of a liquid membrane on cement base, which is mixed with a dispersion component, 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 SCHÖNOX SHP, which are a single component solvent free acrylate dispersion primers 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

SCHÖNOX 2K DS RAPID membrane is a two component system consisting of a liquid membrane on cement base, which is mixed with a dispersion component.

Reinforcement

The reinforcement is SCHÖNOX ST BT or WetStop Tätband Butyl (self-adhering butyl tape) or WetStop SH (self-adhering), which is used in connection between the floor and the wall, in corners and around penetrations. Installation of corner sealing tape can also be done with SCHÖNOX ST or WetStop KL, which are embedded in layers of SCHÖNOX 2K DS RAPID membrane. Readymade fitting pieces SCHÖNOX ST IC or WetStop PC and SCHÖNOX ST EA or WetStop PC-E are used in inside and outside corners. Reinforcement around pipe penetrations in floors and wall is established with SCHÖNOX ST D, SCHÖNOX CM or WetStop MP, WetStop C collars, which are available in various sizes depending on the pipe diameter. For gullies the SCHÖNOX ST FC or ST BC or ST BC-L or WetStop

MG or MG-L is used depending on the working principle and installation principle of the gully

Adhesives

Adhesives covered by this ETA is: SCHÖNOX Q2, SCHÖNOX Q2W, SCHÖNOX Q4, SCHÖNOX Q4 RAPID, SCHÖNOX Q6, SCHÖNOX Q6W, SCHÖNOX Q8, SCHÖNOX Q9, SCHÖNOX Q9W, SCHÖNOX Q12, SCHÖNOX TT FLEX DUR, SCHÖNOX TT S8, SCHÖNOX CF DESIGN and SCHÖNOX TLX,

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 (100 g/m²) or 2 layers SCHÖNOX SPR Primer (150 g/m² + 100 g/m²).
- reinforcement of in- and out going corners in walls, over joints or cracks in the substrate, around pipe penetrations, floor gullies and along the connection between floor and wall with is SCHÖNOX ST Sealing Tape or WetStop KL, which is embedded in a layer of SCHÖNOX 2K DS RAPID membrane or with the self adhering reinforcement SCHÖNOX ST BT Butyl tape or WetStop Tätband Butyl or WetStop SH. Reinforcement around pipe penetrations in floors and wall is established with SCHÖNOX ST D, SCHÖNOX CM or WetStop MP, WetStop C collars, which are available in various sizes depending on the pipe diameter. For gullies the SCHÖNOX ST FC or ST BC or ST BC-L or WetStop MG or MG-L is used depending on the working principle and installation principle of the gully
- at least 2000 g/m² SCHÖNOX 2K DS RAPID distributed evenly over the surface in at least two applications.
- a layer of ceramic tiles adhered to the kit with cement based tile adhesive.

Note that the above mentioned amount of SCHÖNOX 2K DS RAPID corresponds to a dry film thickness of 1,0 mm dry film (see section 3.7).

2 Specification of the intended use in accordance with the applicable European Assessment Document (hereinafter 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, fibre cement boards, cement bonded boards, watertight boards made from a polystyrene core with a cement based glass fibre 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
3.1 Safety in case of fire (BWR2)	
Reaction to fire	Euroclass E
3.2 Hygiene, health and the environment (BWR3)	
Dangerous substances	No dangerous materials *)
Vapour permeability	<p>The vapour permeability of the SCHÖNOX 2K DS RAPID 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 5,1 m. with 2000 g/m² 2K DS RAPID membrane in two applications</p> <p>The s_d value of the kit with primer SCHÖNOX SPR applied to the gypsum board is 39,8 m with 250 g/m² SCHÖNOX SPR Primer in two applications and 2000 g/m² SCHÖNOX 2K DS RAPID membrane in two applications</p> <p>The vapour permeability of the SCHÖNOX 2K DS RAPID membrane with primer when tested at 23°C and RH 100 → 75 %:</p> <p>The s_d value of the kit with primer SCHÖNOX SPR applied to the gypsum board is 21,7 m with 250 g/m² SCHÖNOX SPR Primer in two applications and 2000 g/m² SCHÖNOX 2K DS RAPID membrane in two applications</p>
Moisture resistance	
Water tightness	Watertight according to EN 14891
Crack bridging ability	<p>2000 g/m² membrane SCHÖNOX 2K DS RAPID applied in two layers (equivalent thickness of membrane = 1,0 mm)</p> <p>Assessment category 1: Crack width 0,4 mm</p>
Bond strength	<p>SCHÖNOX 2K DS RAPID membrane and the each of the tile adhesives mentioned in section 1 of this ETA on a concrete substrate all comply with</p> <p>Assessment category 2: Bond strength > 0,5 MPa</p> <p>SCHÖNOX 2K DS RAPID membrane and the each of the tile adhesives mentioned in section 1 of this ETA on substrates**) of calcium silicate boards, gypsum boards, fibre cement boards, cement based boards and watertight boards made from a polystyrene core with a cement based glass fibre reinforced covering comply with</p> <p>Assessment category 2: Bond strength > 0,5 Mpa</p>

Characteristic	Assessment of characteristic
Scratching resistance	No performance assessed
Joint bridging ability	SCHÖNOX 2K DS RAPID membrane (equivalent thickness of membrane = 1,0 mm) in combination with either SCHÖNOX ST Sealing Tape or WetStop KL or SCHÖNOX ST BT Butyl or WetStop Tätband Butyl tape or WetStop SH comply with Assesment category 2: Watertight
Water tightness around penetrations	SCHÖNOX 2K DS RAPID membrane with reinforcements as described in section 1 of this ETA***) comply with Assesment category 2: Watertight
3.4 Aspects of durability	
Resistance to temperature	Assessment category 2: Bond strength > 0,5 MPa
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 2K DS RAPID membrane is 2,00 kg/m ² pr. mm dry thickness of the layer The minimum thickness of the membrane shall be 1,0 mm.

*) 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).

**) The assessment of the kit on the generic description of the boards is based on test on the following specified substrates in addition to concrete according to EN 1323; SCHÖNOX cement based screeds and SCHÖNOX cement based floor leveling compounds, calcium sulfate based screeds, Sakret render cement based, Weber chalk cement render, Knauf gypsum plasterboard (MP 75L), Illbruck polystyrene dry board, cellular concrete blocks, Fermacell gypsum fibre boards, Wedi Building board and old ceramic tile surfaces

***)) In accordance with the provisions of EAD 030352-00-0503 – Annex A, the kit has been tested with three 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.

3.5 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+.

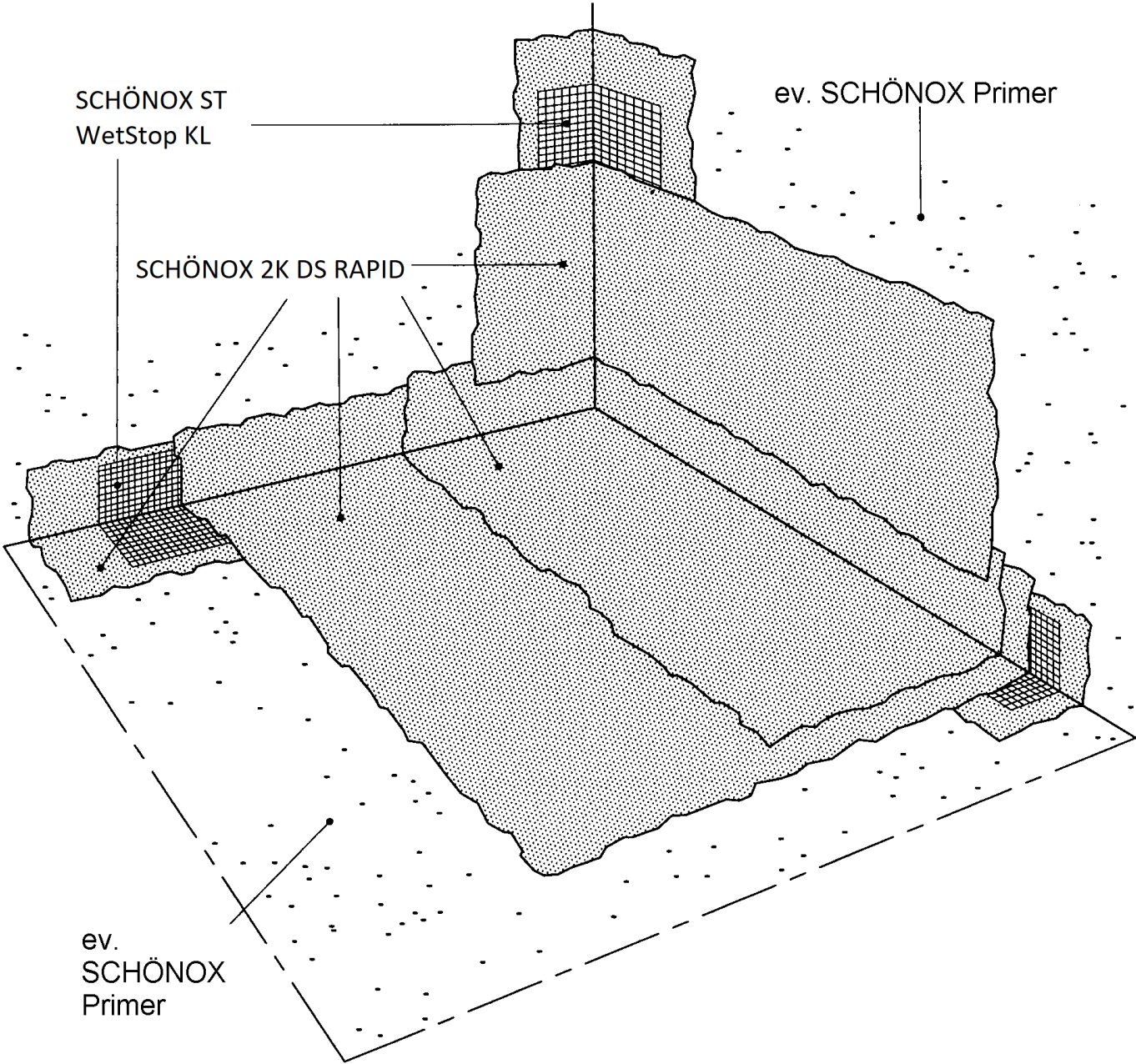
5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

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 2023-01-06 by



Thomas Bruun
Managing Director, ETA-Danmark



SCHÖNOX 2K-DS RAPID watertight covering kit

Principle build-up of the kit

Annex 1
of European Technical
Assessment
ETA-16/0277