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to Article 29 of the Regulation (EU)
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MEMBER OF EOTA



European Technical Assessment ETA-22/0070 of 2022/03/08

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 PRO 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 Service 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:

10 pages including 2 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:

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II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product

General

SCHÖNOX HA PRO 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 (Annex 2 describes the alternative trade names for the components of the kit)::

Primer

SCHÖNOX KH, which is a single component synthetic resin dispersion primer, and SCHÖNOX KH FIX, or a layer of SCHÖNOX 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 PRO liquid membrane on plastic dispersion base.

Reinforcement

The reinforcement is SCHÖNOX ST BT or SCHÖNOX ST (50/25) or SCHÖNOX KIMBAND, which is used in connection between walls, in corners and around penetrations. SCHÖNOX ST (50/25) or SCHÖNOX KIMBAND is embedded in layers of SCHÖNOX HA PRO whereas SCHÖNOX ST BT is a self-adhesive. Readymade fitting pieces SCHÖNOX ST IC or SCHÖNOX IC for sealing inside corners and SCHÖNOX ST EA or SCHÖNOX EC for sealing external angles are embedded in layers of SCHÖNOX HA PRO membrane. For sloping corner, SCHÖNOX SC L 28/20 is used on left side and SCHÖNOX SC R 28/20 is used on right side. Reinforcement around pipe penetrations in floors and wall is established with SCHÖNOX ST D, SCHÖNOX D or SCHÖNOX CM

collars, which are available in various sizes depending on the pipe diameter. For sealing penetrations around the gullies SCHÖNOX ST FC, SCHÖNOX FC or SCHÖNOX ST BC or SCHÖNOX ST BC-L sealing cuff 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 Q2 RAPID, SCHÖNOX Q4, SCHÖNOX Q4 RAPID, SCHÖNOX Q6, SCHÖNOX Q6W, SCHÖNOX Q8, SCHÖNOX Q9, SCHÖNOX Q9W, SCHÖNOX Q12, SCHÖNOX SK, SCHÖNOX SFK, SCHÖNOX PFK PLUS, SCHÖNOX DU, SCHÖNOX TT S8, SCHÖNOX TT RAPID, SCHÖNOX TT FLEX DUR

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 ST (50/25) or SCHÖNOX KIMBAND, which is embedded in a layer of SCHÖNOX HA PRO membrane or with the self-adhesive synthetic rubber reinforcement tape. Reinforcement around pipe penetrations in floors and wall is established with SCHÖNOX ST D, SCHÖNOX D or SCHÖNOX CM collars, which are available in various sizes depending on the pipe diameter. For gullies the SCHÖNOX FC, SCHÖNOX ST BC or SCHÖNOX ST BC-L is used depending on the working principle and installation principle of the gully
- at least 1100 g/m² one component SCHÖNOX HA PRO 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 PRO corresponds to a dry film thickness of 0,5 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	<p>The SCHÖNOX HA PRO is classified as Euroclass E/E_n in accordance with EN 13501-1 and Commission Delegated Regulation 2016/364 under the following field of application:</p> <p>Colour: Grey</p> <p>Thickness 0,5 – 1,0 mm</p> <p>Weight 0,84 kg/m²</p> <p>On support material made from solid mineral substrates of classes A1 and A2 in accordance with EN 13501-1 and a density $\geq 1800 \pm 200 \text{ kg/m}^3$</p>
3.3 Hygiene, health and the environment (BWR3)	
Dangerous substances	No dangerous substances*)
Vapour permeability	<p>The vapour permeability of the SCHÖNOX SPR primer, 250 g/m² + SCHÖNOX HA PRO, 1.130 g/m² applied in two applications and tested at 23°C and RH 93-50%: sd value = 79,3 m:</p> <p>SCHÖNOX HA PRO without primer, 1.130 g/m² applied in two applications and tested at 23°C and RH 93-50% is: sa value = 3,1 m</p>
Moisture resistance	
Water tightness	Watertight according to EN 14891
Crack bridging ability	<p>1.230 g/m² of SCHÖNOX HA PRO membrane, applied in two applications (equivalent thickness of membrane = 0,5 mm)</p> <p>Assessment category 1: Crack with 0,4 mm</p>
Bond strength	<p>SCHÖNOX HA PRO membrane and tile adhesives stated in the draft ETA, on substrates made from concrete, cement based substrates, calcium sulfate based substrates, gypsum fibre boards all comply with</p> <p>Assessment category 2: Bond strength $\geq 0,5 \text{ MPa}$</p> <p>SCHÖNOX HA PRO membrane and tile adhesives stated in the draft ETA, on substrates made from calk cement render, gypsum plaster board and watertight boards made from a polystyrene core with a cement-based fiberglass reinforced covering all comply with</p> <p>Assessment category 1: Bond strength $\geq 0,3 \text{ MPa}$</p>

Characteristic	Assessment of characteristic
Scratching resistance	Not relevant, as the membrane is always mounted with a tile on top.
Joint bridging ability	SCHÖNOX HA PRO membrane in combination with either SCHÖNOX ST(50/25), SCHÖNOX ST-BT Butyl tape and SCHÖNOX KIMBAND, comply with Assesment category 2: Watertight
Water tightness around penetrations	SCHÖNOX HA PRO 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	SCHÖNOX HA PRO membrane and tile adhesives stated in the draft ETA, on substrates made from concrete comply with Assessment category 2: Bond strength $\geq 0,5$ MPa
Resistance to water	SCHÖNOX HA PRO membrane and tile adhesives stated in the draft ETA, on substrates made from concrete comply with Assessment category 2: Bond strength $\geq 0,5$ MPa
Resistance to alkalinity	SCHÖNOX HA PRO membrane and tile adhesives stated in the draft ETA, on substrates made from concrete comply with Assessment category 2: Bond strength $\geq 0,5$ MPa
Resistance to mechanical wear	No performance assessed
Slipperiness	No performance assessed
Repairability	Repairable
Thickness	The required weight (wet) of the SCHÖNOX HA PRO membrane is $2,46 \text{ kg/m}^2$ pr. mm dry thickness of the layer. The minimum thickness of the membrane shall be 0,5 mm. (this value is converted $1,58 \text{ kg/m}^2 = \text{thickness } 0,64 \text{ mm}$)

*) 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+.

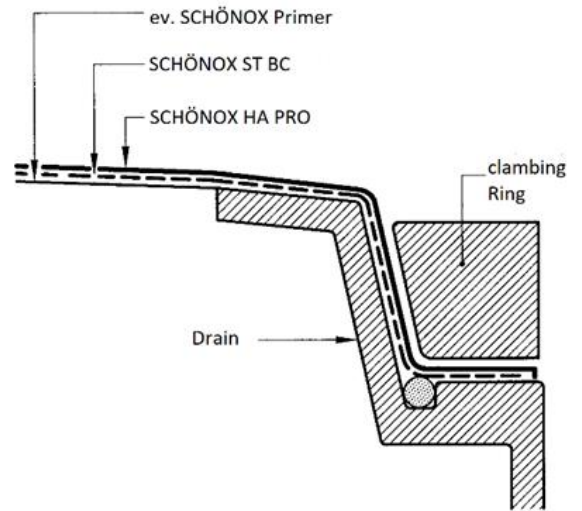
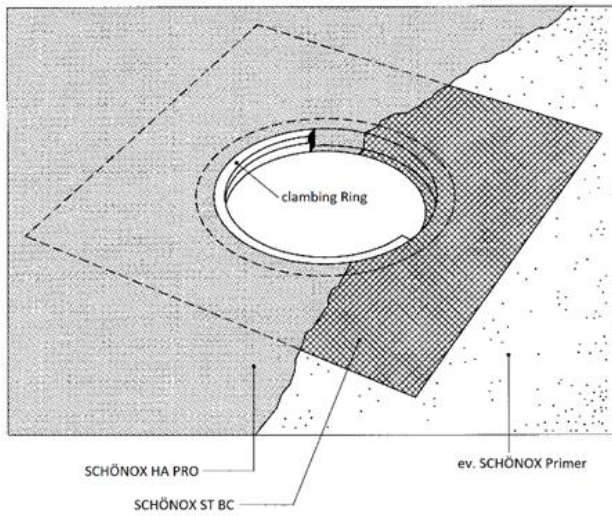
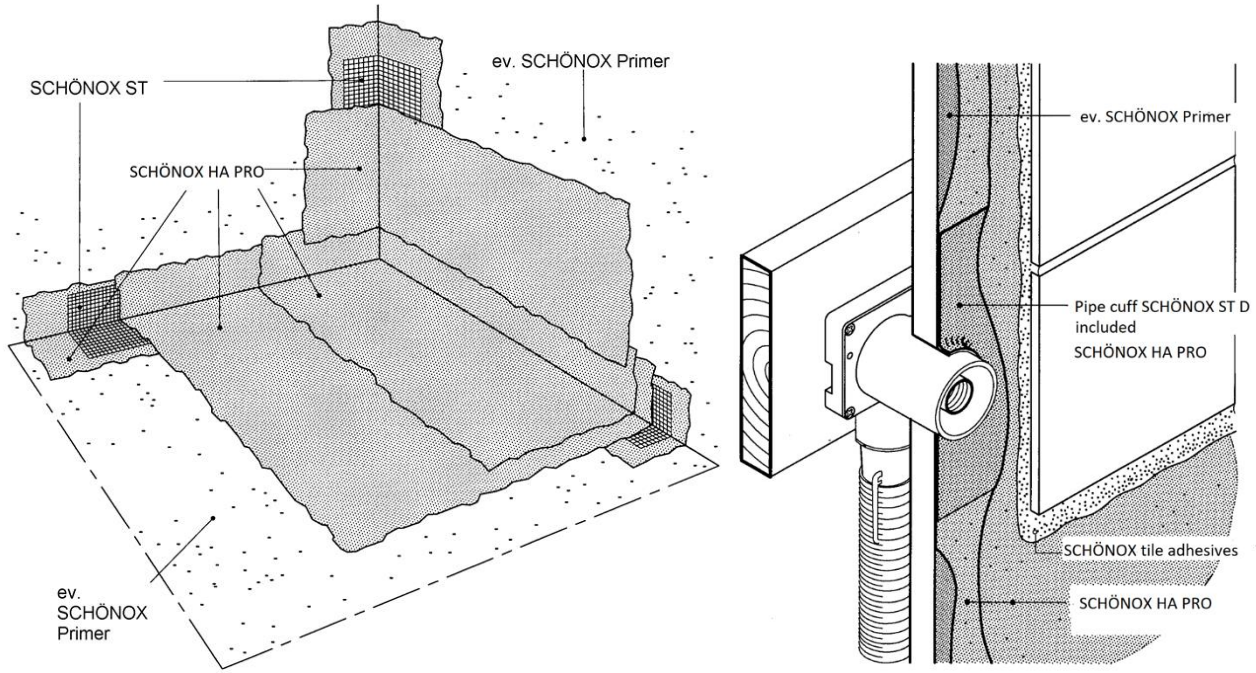
5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

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 2022-03-08 by



Thomas Bruun
Managing Director, ETA-Danmark



SCHÖNOX HA PRO watertight covering kit	Annex 1
Principle build-up of the kit	of European Technical Assessment ETA-22/0070

European Market		Germany	Nordic		
Brand label		SCHÖNOX	SCHÖNOX		
Membrane		SCHÖNOX HA PRO	SCHÖNOX HA PRO	SCHÖNOX HA PRO	
Primer		SCHÖNOX KH	SCHÖNOX KH		
		SCHÖNOX KH FIX	CFE VD FIX		
		SCHÖNOX SHP	SCHÖNOX SHP		
		SCHÖNOX SPR	SCHÖNOX SPR		
Accessoires	Tapes	SCHÖNOX ST (50/25)	SCHÖNOX ST		
				WetStop SH	
				WetStop KL	
			SCHÖNOX ST BT	WetStop Butyl	
				WetStop Vinkelband	
	Corner	internal corner	SCHÖNOX KIMBAND		
		external corner	SCHÖNOX IC	SCHÖNOX ST IC	
		internal corner	SCHÖNOX EC	SCHÖNOX ST EA	
		external corner			WetStop PC
					WetStop PC - E
sloping corner		SCHÖNOX SC L 28/20 SCHÖNOX SC R 28/20.			
Cuffs	Drain	SCHÖNOX FC			
			SCHÖNOX ST BC	WetStop MG	
	Pipe	SCHÖNOX D DEHNZONENMANSCHETTEN	SCHÖNOX ST BC-L SCHÖNOX ST D	WetStop MG-L	
			SCHÖNOX CM	WetStop C WetStop MP	
Tile adhesive		SCHÖNOX SFK			
		SCHÖNOX Q4	SCHÖNOX Q4		
		SCHÖNOX Q2	SCHÖNOX Q2		
		SCHÖNOX Q2 W	SCHÖNOX Q2 W		
		SCHÖNOX Q2 RAPID	SCHÖNOX Q2 RAPID		
		SCHÖNOX DU			
		SCHÖNOX Q4 RAPID	SCHÖNOX Q4 RAPID		
		SCHÖNOX Q6	SCHÖNOX Q6		
		SCHÖNOX Q6 W	SCHÖNOX Q6 W		
		SCHÖNOX Q8	SCHÖNOX Q8		
		SCHÖNOX Q9	SCHÖNOX Q9		
		SCHÖNOX Q9W	SCHÖNOX Q9W		
		SCHÖNOX Q12	SCHÖNOX Q12		
		SCHÖNOX SK			
		SCHÖNOX PFK PLUS			
		SCHÖNOX TT S8			
		SCHÖNOX TT RAPID			
		SCHÖNOX TT FLEX DUR			

SCHÖNOX HA PRO watertight covering kit	Annex 1 of European Technical Assessment ETA-22/0070
Trade names	