

## PRODUCT DATA SHEET

# SCHÖNOX® AB

### WATERPROOFING SHEET MEMBRANE & CRACK ISOLATION SYSTEM

#### DESCRIPTION

A crack bridging, waterproof sheet membrane systems made of polyethylene covered with a special fleece. To be installed with Sikalastic®-1KMY in residential and commercial areas including fully submerged applications. Suitable for use under tile and stone. De-coupling underlay for under tile & stone applications.

#### USES

- In highly loaded commercial wet areas and kitchens.
- On balconies, & terraces prior to tiling.
- In swimming pools, commercial aquatic centre pools, spas
- Residential wet areas and bathrooms

#### Substrates

##### SCHÖNOX® AB is suitable on:

- Concrete (*concrete above 35 Mpa compressive strength requires mechanical preparation*)
- Masonry blockwork
- Brickwork (*fully grouted*)
- Cement Render including on Sika MonoTop repair mortars
- Pre-cast concrete (*with mechanical preparation prior to application*)
- Fibre Cement Boards
- Compressed Cement Fibre Boards
- Gypsum Plaster Boards
- Sika Approved Acoustic underlays
- Aerated concrete
- Moisture blocking cement fibre boards such as Scyon
- Light weight Polystyrene boards coated with mortar
- Cement Terazzo (*with mechanical preparation*)
- Structural Plywood (non marine grade)

#### CHARACTERISTICS / ADVANTAGES

- Extra heavy duty
- Waterproof systems for submerged applications
- Flexible, Class III

- Easy to apply
- Fast to install
- Suitable over floor heating
- Crack isolation over non-structural cracks up to 5 mm
- Water vapour retarding
- Water tight
- Rotproof
- Decoupling Underlay / Mat
- EMICODE EC 1<sup>plus</sup> / Low VOC
- Good adhesion with CTA Tile Adhesives, refer to system structure

## PRODUCT INFORMATION

Composition	Polyethylene sheet encased with a special fleece.
Packaging	30 Meter Roll
Appearance / Colour	Yellow
Shelf Life	2 Years +
Storage Conditions	Store SCHÖNOX® AB in a dry cool area and horizontal.
Volatile organic compound (VOC) content	EMICODE EC 1plus, Very low emissions
Overall Thickness	~0.5 mm
Mass per Unit Area	~280 g/m <sup>2</sup>

## TECHNICAL INFORMATION

Elongation	Class III, (high elasticity).								
Elongation at Break	~700 %								
Crack Bridging Ability	5 mm, over non-structural cracks								
Burst Strength	3.9 bar								
Water Vapour Transimission	0.28 g/m <sup>2</sup> /24hrs (ASTM E96)								
Linear Dimensional Change	Pass								
Tensile Adhesion Strength	~0.5 N/mm <sup>2</sup>								
Resistance to UV Exposure	500 hours								
Adhesion in Peel	<table><thead><tr><th>Substrate</th><th>Average Peel Strength (N)</th></tr></thead><tbody><tr><td>Concrete</td><td>38</td></tr><tr><td>Plywood</td><td>37</td></tr><tr><td>Plaster</td><td>36</td></tr></tbody></table>	Substrate	Average Peel Strength (N)	Concrete	38	Plywood	37	Plaster	36
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Concrete	38								
Plywood	37								
Plaster	36								
Service Temperature	-20 °C min. / +60 °C max.								

## SYSTEM INFORMATION

System Structure	<b>Wet Areas, Balconies &amp; Terraces</b>	
	Priming:	Highly porous substrate can be primed with Sika® Primer-11 WMY
	Sheet Membrane System	
	Schönox® AB Adhesive:	Sikalastic®-1KMY
	Sheet Membrane:	SCHÖNOX® AB sheet membrane
	Sheet Component:	Schönox® ST Sealing Tape, Sika® SealTape F, Schönox® ST Corners and Pipe penetrations
Tile Adhesive:	SikaCeram®-288 MY	
Tile Grout:	Davcogrout	
Tile Sealant:	Sikasil®-129 Kitchen and Bathroom, Sikaflex® Pro-3, Sikaflex®-11 FC+	

## Submerged Applications, Pools & Spas

Renders, & Repair Mortars:	Sika MonoTop® range
Joint System:	Sika® Combiflex® joint system
Schönox® AB adhesive:	Sikalastic®-1KMY
Sheet Membrane:	SCHÖNOX® AB sheet membrane
Sheet components:	Schönox® ST Sealing tape, Sika® SealTape F, Schönox® ST Corners and Pipe penetrations
Tile Adhesive:	Optiroc Tile Adhesive DW Set
Tile Grout:	Davcogrout and Davco Grout Admix Plus RL 1000
Tile Sealant:	Sikaflex® Pro-3 (except for swimming pool), Sikasil® Pool

\*refer to individual product datasheets for product limitations etc.

## APPLICATION INFORMATION

**Ambient Air Temperature** 5 °C min. / 35 °C max.

**Substrate Temperature** 5 °C min. / 35 °C max.

## APPLICATION INSTRUCTIONS

All substrates shall be installed as per manufacturers instructions, fit for purpose and designed to handle the loads of a Tile or Stone system.

- Substrate Deflection: All Substrates under loads must not exceed L/360 for tile and L/450 for Stone.
- Substrates must be properly cured, structurally sound, free from loose or friable particles, clean, dry and free from contaminants such as dust, dirt, oil, grease, curing compounds, crystalline sealers, laitance, or efflorescence.
- Dependant on the substrate condition and contamination to be removed from the surface, perform adequate scarification, or blast cleaning in order to remove all traces of any materials that could reduce the product adhesion to the substrate.
- Refer to Sikalastic®-1KMY PDS for further details.

### Floor Tiling may commence after;

Porous Substrates	After 2-3 days
Non Porous Substrates	After 2-3 days

\*Note: substrate porosity, environment, temperature, humidity and conditions will impact drying and curing times.

## EQUIPMENT

Slow Speed Mixing Drill (Max 500RPM)

## SUBSTRATE QUALITY

**Concrete Floors:** Allow 28 days for concrete to cure. Concrete shall be left with an open surface, steel trowel finishes are generally acceptable if they accept water penetration. Wood float finishes are preferred where possible.

**Cement mortar beds / Screeds:** Mortar bed / Screeds must be installed as per AS ISO 3958.1,2007. Mortar beds must be a minimum 24 hours old at 23 °C and 50 % r.h.

**Sheeted substrates:** All boards / Underlays must be in-

stalled as per manufacturers instructions and specifically designed for tiling.

## APPLICATION METHOD / TOOLS

### Application of floor wall functions and corners, Schönox® ST Sealing Tape, Sika® SealTape F and ST corners

Apply the Schönox® AB adhesive to the substrate junctions with the Schönox® AB 100 mm roller to achieve a minimum 1 mm wet film thickness. While the adhesive is wet embed the internal or external corners into the Schönox® AB adhesive and smooth flat with the Schönox® AB smoothing tool.

Apply additional adhesive to overlap the corner on both floor & wall substrates by a 50 mm minimum and embed the Schönox® ST Sealing Tape/Sika® SealTape F.

Apply additional adhesive where the corners and tapes join for a watertight finish.

Should the adhesive skin, apply additional adhesive as required.

### Application of Pipe Penetrations

Apply a coat of the Schönox® AB adhesive around the pipe penetration with the Schönox® AB 100 mm roller and embed the Schönox® ST pipe penetrations and flatten with the smoothing tool. Apply additional adhesive over the joint to ensure watertight finish.

### Application of the SCHÖNOX® AB Sheet Membrane.

Measure and cut sheet as required with the Schönox® AB Knife.

Apply a layer of the adhesive with the Schönox® 180 mm roller, min 1mm wet film thickness, to an area that can be covered prior to adhesive skinning (approx 1 m<sup>2</sup>) and embed the SCHÖNOX® AB sheet into the adhesive. Immediately fatten the sheet with the Schönox® AB smoothing tool. Repeat process by gradually rolling and apply adhesive as required. All sheet joints are to be overlapped by a minimum 50mm and ensure the Schönox® AB adhesive covers all sheet joints for a watertight finish.

### Waterstop Angles, and Terminations

Penetration can be terminated into the pipe with the Schönox® AB adhesive without Schönox® ST tape. Schönox® AB adhesive can be used to adhere water-stop angle with Sikaflex®-11 FC+ sealant used where angles terminate at junctions.

**Schönox® iFix Tool Kit** (purchased seperately)

Tools Kit consists of;  
Schönox® AB Smoothning Tool  
Schönox® AB Knife  
Schönox® iFix 100 mm Roller  
Schönox® iFix 180 mm Roller  
Protective Gloves

## IMPORTANT CONSIDERATIONS

- SCHÖNOX® AB Sheet membrane is designed as a complete system. Non proprietary products use to fix the sheet shall be deem non-compliant.
- SCHÖNOX® AB is not suitable for sovent based coatings.
- Flood testing can be conducted at a 50 mm maximum height after min. 7 days after the SCHÖNOX® AB waterproofing system has been laid.
- Please consult Sika for advice over substrate with rising damp.
- Please consult Sika for further information as required.

## BASIS OF PRODUCT DATA

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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