

PRODUCT DATA SHEET

SCHÖNOX® AB

FLEXIBLE WATERPROOF MEMBRANE OR DE-COUPLING MAT FOR WET AREAS, BALCONIES & SWIMMING POOLS BELOW TILING.

DESCRIPTION

A flexible, class III, crack-bridging, isolating and waterproofing sheet membrane. Made from highly tear resistant Polyethylene, double sided fleece lamination for rapid installation of waterproofing and tiling. SCHÖNOX® AB can be used in normal and high loaded commercial wet areas, steam rooms and swimming pools. SCHÖNOX® AB is suitable for heated floors and has excellent crack bridging properties.

USES

- in highly loaded commercial wet areas and kitchens.
- on balconies, & terraces prior to tiling.
- in swimming pools, commercial aquatic centre pools, spas and sauna's. (10m depth maximum)
- Wet area applications
- interior and exterior applications

Schonox AB is suitable on the following substrates:

- Concrete
- Masonry blockwork (fully grouted)
- Existing tiles such as ceramic tiles, porcelain tiles (priming or mechanical preparation required)
- Cement Render, mortar beds & Screeds
- Pre-cast concrete (*with mechanical preparation* prior to application)
- Fibre Cement Boards
- Compressed Cement Fibre Boards
- Gypsum Plaster Boards
- Aerated concrete
- Light weight Polystyrene boards coated with mortar
- Cement Terazzo (*with mechanical preparation*)
- Structural Plywood & Particle Board (non marine grade)
- Heated floors (water and electric systems)

CHARACTERISTICS / ADVANTAGES

- Approved ETAG 022
- EMICODE EC1^{plus}: Very low emission
- High breaking strength
- Crack bridging up to 6mm for non-structural / non dynamic cracks
- Flexible Class III performance
- Fast, easy 1 step application
- Tiling may commence immediately after application (on porous substrates)
- Rotproof
- Water vapour retarding
- Water tight
- De-coupling Mat
- Excellent adhesive with Sika branded tile adhesives (Davco & CTA)

APPROVALS / CERTIFICATES

AS 4858:2004, Wet Area Membrane
AS 4654.1, 2012, Waterproofing Membrane Systems for Exterior Use

PRODUCT INFORMATION

Composition	Polyethylene sheet encased with a special fleece.
Packaging	30 Metre Roll
Appearance / Colour	Grey or Yellow
Shelf life	2 Years +
Storage conditions	Store Schonox AB in a dry cool area and horizontal.
Volatile organic compound (VOC) content	EMICODE EC 1plus, Very low emissions
Mass per unit area	approx 280g/m ²

TECHNICAL INFORMATION

Tensile strength	5.17Mpa	
Elongation	Class III, (high elasticity).	
Elongation at maximum tensile force	535% at 5.17MPa	
Crack bridging ability	5mm, over non-structural cracks	
Burst strength	≥ 3.0 bar	
Water vapour transmission	0.28g/m ² /24hrs (ASTM E96)	
Linear dimensional change	Pass	
Adhesion in peel	Substrate	Average Peel Strength (N)
	Concrete	38
	Plywood	37
	Plaster	36
Chemical resistance	Hydrochloric acid 3%	
	Sulfuric acid 35%	
	Lactic acid 5%	
	Potassium hydroxide 3%/20%	
	Sodium Hypochlorite 0.3g/Ltr	
	Citric acid 10%	
Sea Water 20g/l sea salt		
Resistance to UV exposure	500 hours	
Service temperature	-30°C to +90°C	

SYSTEMS

System structure

WET AREAS, BALCONIES & TERRACES

Priming:

Porous substrates: Eco Prime WB, or Davco Ultraprime

Dense substrates: Davco Primex

Existing Mat finished tiles: Eco Prep n Prime or Davco Ultrabond

Non porous substrates and coatings: Davco Ultrabond

Tile Adhesives:

Any Sika branded S1 classified cement based tile adhesives (Davco or CTA)

Davco Adhesives:

SMP EVO

Powder Mastic

2 Part Rapid

Econofix IP (walls only)

Ultraflex (Residential only)

CTA Adhesives

Prohesive MegaLite

Prohesive Lite

Promaxset Plus

Promaxset

MegaPro (walls only)

Proflex (Residential only)

Eco Opti-Cure

SUBMERGED APPLICATIONS, ie Pools spas and saunas

Contact Sika technical department for a detailed specification.

*refer to product datasheet for additional information and limitations.

APPLICATION INFORMATION

Ambient air temperature

Not below 5°C

Not above 38°C

Substrate temperature

Not below 5°C

Not above 35°C

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 contaminates 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 Schonox iFix Adhesive PDS for further details.

EQUIPMENT

Slow Speed mixing drill (Max 500RPM)

Schonox iFix Tool Kit

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.

Sheeted substrates: All boards / Underlays must be installed as per manufacturer's instructions and specifically designed for tiling.

Structural Plywood and Particle Board: Boards shall be clean and dry and rigid enough to accommodate the incumbent tiling system. Waxes, or coating must be removed prior to application.

Priming: On porous substrate priming is considered optional.

On highly porous cement boards, priming may be undertaken with Eco Prime WB or Davco Ultraprime to increase open time of the Schonox iFix adhesive.

APPLICATION METHOD / TOOLS

APPLICATION AS A WATERPROOF MEMBRANE

Detailing: Schonox ST Tape & Corners, ST D pipe penetrations

Install the St Tape and accessories onto a fresh layer of Schonox iFix adhesive on movement joints, floor/wall connections, corners, drains and around pipes.

SCHÖNOX® AB Membrane application

Cut SCHÖNOX® AB membrane to the required size. Lay the SCHÖNOX® AB membrane onto a fresh layer of Schonox iFix adhesive. Apply pressure with the Schonox smoothing tool avoiding bubbles under the membrane. It is recommended to smooth the membrane outwards from the middle of the sheet to the edges.

*SCHÖNOX® AB must be laid lengthways to the slope and not crossways. This ensures that the drained water is not retained at the junctions of the sheet joints.

Overlap Joints

All joints must be bonded and sealed with the Schonox iFix adhesive. Effective width of the overlaps must be a minimum 50mm.

Apply the Schonox iFix adhesive on top of the existing applied SCHÖNOX® AB over a width of 80mm. The overlapping membrane is laid onto the fresh adhesive and pressure applied over the joint with the Schonox smoothing tool. It is essential to avoid air bubbles and voids in the bonded joint.

Tile application

Tiling may occur on porous substrate after 30 minutes. Allow a minimum of 12 hours prior to tiling on dense or non-porous substrates.

APPLICATION AS A DE-COUPLING MAT

Lay the SCHÖNOX® AB onto a fresh layer of Sika branded (Davco or CTA) S1 adhesive (refer to system structure for approved adhesives) applied to the substrate with a 4mm notched trowel. Apply pressure over the membrane with the Schonox smoothing tool avoiding air bubbles under the membrane. It is recommended to smooth the membrane out from the middle of the sheet to the edges.

Joints

Butt joint the adjoining membrane sheet edges. Apply standard masking to the sheet joints.

Tiling application

Lay the tiles over the De-coupling membrane, after the setting of the tile adhesive bonding the De-coupling Mat use a Sika branded (Davco or CTA) S1 classed tile adhesive to fix the tiles (refer to the system structure for nominated tile adhesives).

FURTHER INFORMATION

Refer to the datasheets associated to the Schonox AB system.

IMPORTANT CONSIDERATIONS

- Schonox AB Sheet membrane is designed as a complete system. Non-proprietary products use to fix the sheet shall be deemed non-compliant.
- Schonox AB is not suitable for solvent based coatings.
- Flood testing can be conducted at a 50mm maximum height after 24hours at 23°C and 50% RH after the Schonox AB waterproofing system has been laid. Allow 48 hours for dense and non-porous substrates.
- Not suitable for rooftop applications
- Please consult Sika for advice over substrate with rising damp.
- For information not outline in this document please seek further advise for Sika technical dept.
- 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 declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

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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Product Data Sheet

SCHÖNOX® AB

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