BUILDING TRUST

PRODUCT DATA SHEET

SCHÖNOX® AB

WATERPROOFING SHEET MEMBRANE & CRACK ISOLATION SYSTEM FOR TILE AND STONE INSTALLATIONS

DESCRIPTION

A crack bridging, waterproof sheet membrane system made of polyethylene covered with a special fleece designed for use in wet areas, balconies and swimming pools.

USES

• Highly loaded commercial wet areas and kitchens.
• Balconies, & terraces prior to tiling.
• Swimming pools, commercial aquatic centre pools, spas and sauna's.
• Residential wet areas and bathrooms

Substrates

Schonox AB is suitable on:

• Concrete
• Masonry brick & blockwork (*fully grouted/rendered*)
• Cement-based screeds and renders
• Fibre Cement Boards and sheets"
• Gypsum Plaster Boards*
• Sika Approved Acoustic underlays
• Light weight Polystyurene boards coated with mortar*

** Refer manufacturer instructions and load limits. Boards and sheet shall be specifically designed to receive tiles*

FEATURES

- Extra Heavy Duty - Robinson floor test
- Highly Flexible, Class III
- Fast to install
- Tile & Stone applications may commence as soon as 2 hours after application
- Suitable over floor heating systems
- Crack isolation over non-structural cracks up to 6mm
- Tested and compliant to AS4858:2004 & AS4654.1, 2012
- Water Vapour retarding
- Frost Resistant
- Rotproof
- Decoupling properties
- Sheet can be walked on during application
- Can be used in submerged applications - Seek Sika Specification

CERTIFICATES AND TEST REPORTS

AS 4858:2004
AS 4654.1, 2012

PRODUCT INFORMATION

Composition	Polyethylene sheet encased with a special fleece.
Packaging	30 Meter Roll
Appearance and colour	Grey or Yellow
Shelf life	2+ Years Refer to the adhesives product data sheet for shelf life information
Storage conditions	Store Schonox AB in a dry cool area and horizontal.
Effective thickness	0.55mm
Mass per area	approx, 280g/m²

TECHNICAL INFORMATION

Elongation	Class III, (high elasticity).
Tensile strain at break	≈700%
Tensile adhesion strength	Pass, 5.17Mpa
Crack bridging ability	6mm, over non-structural/non dynamic cracks
Resistance to UV exposure	500 hours
Water-vapour transmission rate	0.28g/m²/24hrs (ASTM E96)
Service temperature	-20°C to +60°C

APPLICATION INFORMATION

Mixing ratio

The adhesive used to bond the Schonox AB sheet membrane system:
SikaTile 440 Opti-Cure mixed neat with Lanko Latex 751 Additive.

Mixing Ratio

Application	SikaTile 440 Opti-Cure	LankoLatex 751	Coverage
Rollable	5.5 - 6.25kgs	5Ltrs	10m²
Trowelable	7.0 - 8.0kgs	5Ltrs	9m²

- Additional powder of up to 1kg of SikaTile 440 Opti-Cure may be added to the 5Ltr Lanko Latex 751 to reach your desired consistency.

Do not dilute the Lanko latex 751 - use neat.

Trowel Application

Trowel size 2.6mm V notched trowel for board substrates
Trowel size 3.5mm V notched trowel for concrete and screed susbstrates

Pot Life:

1.5 hours (approx)

Mixing Instructions:

1. Add the Lanko latex 751 additive to a clean mixing bucket.
2. Slowly add the SikaTile 440 Opti-Cure to the bucket while stirring with an electric mixing drill.
3. Mix the adhesive to a smooth lump free mixture and allow the mixture to stand or "slake" for 3 minutes.
4. Restir the adhesive for an additional 1 minute then the adhesive can be used.

- The adhesive may need restirring during its pot life, do not add any additional additive.

Ambient air temperature	Not below 5°C & not above 35°C

Substrate temperature	Not below 5°C & not above 35°C Avoid application in hot direct sunlight ie >30°C as vapour pockets may occur. For external application in expose sun cover with screed or tile as soon as applicable or cover with a white corflute protection board or similar immediately after installation.

Applied product ready for covering

Substrate	Dry time prior to covering
Porous substrates - wall applications	12+ hours
Porous substrates - floor applications	2+ hours
Non porous substrates and compressed cement boards	6+ hours

Drying times are measured at 23°C and 50% relative humidity use chart as a guide only.
Hot climate will reduce drying times and cool or cold climate with extend drying times.

SYSTEM INFORMATION

System structure

Wet Areas, Balconies & Terraces	
Priming:	
Porous Substrates	SikaTile 010 Secure Prime
Non-porous Substrates	SikaFloor-14 Prep n Prime
Sheet Membrane System	SikaTile 440 Opti-Cure with Lanko latex additive (neat no water added)
Schonox AB Adhesive:	
Sheet Membrane:	Schonox AB sheet membrane
Sheet Component:	Schonox ST Sealing Tape
Sheet Component:	Schonox ST Corners and Pipe penetrations
Tiling System	
Tile Adhesive	Any SikaTile tile and stone adhesive
Tile Grout	Any Sika Tile grout

Submerged Applications, Pools Spas, and Saunas

- Seek written Sika Specification for submerged applications such as pools or spas.

** Refer to all product datasheets for product limitations prior to use.*

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.

LIMITATIONS OF USE

- Not suitable for externally application over early aged concrete or screeds.
- Not suitable for application with rising damp and high moisture related issues.

IMPORTANT CONSIDERATIONS

- Schonox AB Sheet membrane is designed as a complete system. Non propietory products use to fix the sheet shall be deem non-compliant.
- Flood testing can be conducted at a 50mm maximum height after 24 hours at 23°C and 50% RH on porous substrates. (tested at 23°C and 50% relative humidity).
- Please consult Sika for installations not mentioned in this document

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.

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/720 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, crystaline sealers, laitance, or effloresence.
- Dependant on the substrate condition and contamin-

ation 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.
- Substrates shall be smooth and continuous without pit, divots. Repair pits or divots with a suitable Sika repair mortar prior to application.

EQUIPMENT

- Slow Speed Mixing Drill (Max 500RPM)
- Plastic trowel / plastic paint scrapers
- 2.6mm or 3.5mm V notched trowels
- Paint rollers - 100mm & 230mm
- Utility knife or scissors

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 preffered where possible.
Cement mortar beds / Screeds:
Mortar bed / Screeds must be installed as per AS ISO 3958.1,2007.
Application can be undertaken over early aged screeds internally only. Allow screed to dry for a minimum 24 hours at 23°C and 50% relative humidity.
Allow screeds to dry and cure externally prior to application.
Sheeted substrates:
All boards / Underlays must be installed as per manufacturers instructions and specifically designed for tiling.

SUBSTRATE PREPARATION

Prime surfaces prior to application.

Application	Primer
Porous Substrates	SikaTile 010 Secure Prime
Non-porous Substrates ie control leak flanges and pipe penetrations	SikaTile 015 Prep N Prime

Refer the the primer product data sheet for the complete user instruction prior to use.

APPLICATION METHOD / TOOLS

- Refer to Mixing Ratio section in this document for Adhesive details.

Application of floor wall functions and corners, Schonox ST Sealing Tape and ST corners
Apply the adhesive to the substrate junctions with a 100mm roller or v notched trowel. While the adhesive is wet embed the Schonox St Sealing Tape and corners in position
Apply addition adhesive to overlap the joins and smooth out with a plastic scraper
Application of Pipe Penetrations - Schonox ST D components
For PVC fittings, apply a single coat of SikaFloor-14 Prep n Prime and allow to dry.
For Metal Fittings, lightly abrade with steel wool and then clean residue with Isopropyl Alcohol and allow to dry. Then apply a single coat of SIkaFloor-14 Prep n Prime and allow to dry.
Apply the adhesive around the pipe penetration with the Schonox 100mm roller or a V notched trowel and embed the Schonox ST pipe penetrations and flatten with a plastic scrapper.
Application of the Sconox Ab Sheet Membrane.
Measure and cut sheet as required with the Utility Knife or Scissors
Apply a layer of the adhesive with a roller or V notched trowel to an area that can be covered prior to adhesive skinning (approx 1m2) and embed the Shonox AB sheet into the adhesive. Immediately fatten the sheet with a plastic scraper. Repeat process by gradually rolling and apply adhesive as required. All sheet joins are to be overlapped by a minimum 50mm and ensure the adhesive covers all sheet joins for a watertight finish.
Waterstop Angles, and Terminations
Penetration can be terminated onto the pipe penetrations. Prime PVC pipes with SikaFloor-14 Prep n Prime and allow to dry. Apply the adhesive to the primer and install the Schonox ST D pipe penetrations.
Control Leak flanges shall be primed with SikaFloor-14 Prep n Prime and allowed to dry prior to bonding sheet terminations or ST Sealing with the adhesive
Waterstop Angles shall be primed with SikaFloor-14 Prep n Prime and allowed to dry. Bond the Schonox ST Sealing tape to Waterstop angles with the adhesive as needed.
Application Notes:
- Ensure all sheet joins and tapes etc are overlapped by 50mm.
- Ensure all sheet joins and over laps are well bonded. If required the adhesive can be skimmed over sheet joins to protect sheet edges.

CLEANING OF EQUIPMENT

Tools and equipment can be clears with water prior to the adhesive setting.

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.

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 re-

serves 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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