

PRODUCT DATA SHEET

SikaShield® S-60

Self Adhering Sheet Waterproofing Membrane, designed for post-applied applications. Ideal for below grade and between slab concrete substrates.

PRODUCT DESCRIPTION

SikaShield® S-60 is a proprietary composite, uniquely designed to provide high strength, low temperature adhesion and high temperature stability in a superior waterproofing membrane. A tough cross-laminated film forms a resilient barrier against physical damage and water migration. It is a cold applied system requiring no heat or special equipment to install.

USES

SikaShield® S-60 is ideal for waterproofing below grade concrete, masonry structures and wood surfaces where in-service temperatures will not exceed 130 °F (54 °C). It can also be applied to split slab construction both above and below grade as well as earth sheltered structures.

CHARACTERISTICS / ADVANTAGES

- Waterproof membrane, high hydrostatic head resistance
- Easy to install, self-adhesive overlap ensures installation quality
- Controlled thickness, minimizes opportunity for job site error
- Flexible, handles shrinkage movement and minor settlement
- Cross-Laminated film, great stability and resistance to puncture and tearing
- Cold applied, no heat or flame necessary for installation

PRODUCT INFORMATION

CSI / CSC MasterFormat®	07 13 26 Self-Adhering Sheet Waterproofing	
Packaging	Sold in a cartoned roll 1 roll per carton. Each roll is 3 ft. x 66.7 ft.	
Shelf Life	1 year when properly stored	
Storage Conditions	Store in a clean and dry area with temperatures between 40–100 °F. Do not store in direct sunlight. Do not allow to freeze. If material becomes frozen, contact Sika prior to using.	
Thickness	60 mil (1/16 in.)	(ASTM D3767 - method A)

TECHNICAL INFORMATION

Tensile Strength	Membrane	325 lbs/in	ASTM D412
	Film	5,000 lbs/in ²	

Elongation	To failure load	300%	ASTM D412
Adhesion in peel	9 lbs/in		ASTM D1876
Low Temperature Bend	Passes (0 °F)		ASTM D1970
Water Absorption	< 0.1%		ASTM D570
Resistance to Water Penetration	> 231 ft		ASTM D5385
Permeability to Water Vapor	< 0.05 perms		ASTM E96
Resistance to Environmental Stress Cracking	Passes		ASTM C836

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

USES

Used for pre-applied and post applied systems. Do not leave installed product exposed to direct sunlight for more than 90 days. If SikaBit® S-60 is being applied over any sealants, ensure they are fully cured prior to installation of membrane. Do not install over flexible vinyl gaskets.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

CURE MECHANISM

Temperature - Apply SikaShield® S-60 when surface and air temperatures are 50 °F and above. When SikaShield® S-60 must be applied in cold weather (under 50 °F), consult with Sika Technical Representative for cold weather application instructions.

SUBSTRATE PREPARATION

Surface Preparation - Surface must be clean, dry, free of voids, and structurally sound. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. Concrete must be properly dried for a minimum of 7 days, ideally 14 days. If applying membrane in less than 14 days, consult with Sika Technical Representative for

process for applying membrane to green concrete. Repair any defects and remove sharp protrusions as well as form match lines.

Primers - Apply SikaBit® Primer AW by roller or sprayer at a rate of 450–500 ft²/gal. Allow primer to dry one hour or until primer is slightly tacky. Drying time may be longer in cooler temperatures. Reprime if area is contaminated by dust or other debris, apply SikaShield® S-60 as soon as primer is dry. NEVER apply primer directly to SikaShield® S-60 membrane.

APPLICATION METHOD / TOOLS

Vertical Application - Apply SikaShield® S-60 in lengths up to 10 ft. Overlap all side seams by at least three inches, overlap all head seams by 6 inches. Proper staging is required on higher walls. On higher walls, apply membrane in two or more sections with the higher section overlapping the lower section by at least 6 inches. ROLL ALL membrane with a hand roller. Terminate the SikaShield® S-60 at grade level. The SikaShield® S-60 comes with a protective release liner that should be removed as the product is applied to the substrate. To ensure proper seal, press the top end of the membrane firmly with the butt end of a hardwood tool such as a hammer. Ensuring a tight seal at grade level is essential for desired performance of membrane. A termination bar may be used to ensure a tight seal. Sika has several termination bars available for this application, consult Sika Technical Representative for more information. Terminate the membrane at the base of the wall if the bottom of the interior floor slab is at least 6 inches above the footing, otherwise use the appropriate corner detail where the footing and the wall meet. Insulation must be applied over the membrane. Do not apply membrane over light weight insulating concrete.

Horizontal Application - SikaShield® S-60 can be used on horizontal applications. Note: SikaProof® or SikaPlan® membranes are ideal for this application, and can tie in with SikaShield® S-60. Apply SikaShield® S-60 from the low point to the high point so that laps are properly shingled. Overlap all side seams by at least 3 inches,

overlap all head seems by 6 inches. ROLL ALL membrane with a 75-lb min. linoleum roller. The SikaShield® S-60 comes with a protective release liner that should be removed as the product is applied to the substrate. To ensure proper seal, press the end of the membrane firmly with the butt end of a hardwood tool such as a hammer. Ensuring a tight seal is essential for desired performance of membrane. Seal all T-joints and membrane terminations with Sika® HyFlex.

Construction/Product Details - Contact Sika or visit Sika website for product details. If a construction detail is required that is not on the website, please contact Sika Technical Service at 1-800-325-9504.

Protecting the Membrane - On vertical applications use Sika® Drainage Mat. On horizontal applications, such as mud slabs, the use of hardboard at a total thickness of 1/4 inch or Sika® Drainage Mat is recommended.

Backfill/Backfilling - It is best practice to backfill as soon as possible after installation. Care must be taken not to damage the membrane during the backfill process. Follow standard/general accepted guidelines for backfilling. Backfill should be added and compacted in lifts of 6 - 12 inches. For projects that can not be fully compacted, a termination bar is suggested across the top of the termination of the SikaShield® S-60.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and

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Product Data Sheet

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instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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