



INSUL-TARP®

UNDER-SLAB INSULATION

DIVISION

0700

1 PRODUCT NAME

PRODUCT NAME: Insul-Tarp®
Under-Slab Insulation

2 MANUFACTURER

ISI BUILDING PRODUCTS

401 Truck Haven Road, East Peoria Illinois 61611
Phone: 866.698.6562 / Fax: 309.698.0065 / www.isibp.com

3 PRODUCT DESCRIPTION

3.1 BASIC USE

Insul-Tarp is an under-slab insulation/vapor barrier designed to provide a thermal break and moisture barrier between the slab and grade. When used with radiant heated slab applications, Insul-Tarp will increase the performance of the system by redirecting heat back into the slab.

Insul-Tarp can also reduce condensation, mold and degradation by controlling water vapor migration.

3.2 COMPOSITION & MATERIALS

Insul-Tarp is a multi-layer blanket insulation manufactured using cross woven polyethylene, high density closed-cell foam, a layer of high density polyethylene bubble and two layers of reflective aluminum. Insul-Tarp's layers combine to provide consistent thermal and moisture protection.

3.3 SIZE

Standard Size: 6'x25', 12'x25', 2'x50', 3'x50', 4'x50', 6'x50', 12'x50'

3.4 WEIGHT

12.5 lbs. per 150 sq. ft.

4 TECHNICAL DATA

4.1 APPLICABLE STANDARDS

ASTM C 518-02 Standard Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus

ASTM E 96 Standard Test Methods for Water Vapor Transmission of Materials

ASTM E 1643 Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs

ASTM D 412-98 Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension

ASTM D 3575 Standard Test Methods for Flexible Cellular Materials Made From Olefin Polymers

ASTM D 751 Standard Test Methods for Coated Fabrics

ASTM D 1922 Standard Test Method for Propagation Tear Resistance of Plastic Film and Thin Sheeting by Pendulum Method

4.2 ENVIRONMENTAL CONSIDERATIONS

Insul-Tarp can be used as a radon and methane gas barrier.

4.3 PHYSICAL PROPERTIES

Insul-Tarp conforms to the subsoil and will not crack or break when walked upon.

5 INSTALLATION

PLACEMENT

5.1 Level and tamp or roll granular base as specified by your architectural or structural drawings.

5.2 Unroll Insul-Tarp with the longest dimension parallel with the direction of the pour.

5.3 Lap Insul-Tarp over the footings and seal to the vertical foundation walls with appropriate tape. Seal around pipes, support columns or other penetrations by cutting an 'X' in the Insul-Tarp and sliding it over the obstruction. Doing so will create a monolithic membrane between the surface of the slab and moisture sources below and at the slab perimeter.

5.4 Holes or openings through Insul-Tarp should be effectively sealed with appropriate tape to maintain the integrity of the vapor barrier. Overlap joints a minimum of four inches. Seal overlap together with appropriate tape.

PROTECTION

5.5 When installing reinforcing steel and utilities in addition to the placement of concrete, take precaution to protect Insul-Tarp. Carelessness during installation can damage the most puncture-resistant insulation/vapor barrier. Provide for additional protection in high-traffic areas.

5.6 Place standard reinforcing bar supports on Insul-Tarp. The cross woven structure of Insul-Tarp will help guard against possible punctures caused by reinforcing bar supports.

5.7 Avoid driving stakes through Insul-Tarp. If this cannot be avoided, each individual hole must be repaired.

5.8 If a cushion or blotter layer is required in the design between the insulation/vapor barrier and the slab, additional care should be taken, especially if sharp crushed rock is used. Washed rock will provide less chance of damage during placement.

These are very general installation instructions. Instructions on architectural or structural drawings should be reviewed and followed. Detailed installation instructions can be obtained by calling our corporate office at 866-698-6562 or online at www.isibp.com.

6 AVAILABILITY AND COST

Insul-Tarp is sold through construction and HVAC supply houses across the United States and Canada.

Insul-tarp current cost information can be obtained by calling our corporate sales office at 866.698.6562.

7 WARRANTY

Warranty information can be obtained by calling 866.698.6562 or online at www.isibp.com.

8 MAINTENANCE

If air pockets occur when pouring the concrete slab, simply cut a slit in the top layer of the tarp to release any trapped air. Place a piece of appropriate tape over the slit and continue pouring.

9 TECHNICAL SERVICES

Technical information and detailed test results can be obtained by calling ISI Building Products toll free at 866.698.6562.

10 FILING SYSTEMS

Additional information can be obtained by calling our corporate office at 866.698.6562 or online at www.isibp.com.

PROPERTIES	TEST METHOD	RESULTS
WEIGHT PER 150 SQ. FT.	N/A	12.5 LBS.
TENSILE STRENGTH & ELONGATION (BUBBLE PACK)	ASTM D 412-98	136 PSI
TENSILE STRENGTH (CROSS WOVEN POLYETHYLENE)	ASTM D 751 (GRAB)	45/LBF/IN.
COMPRESSION SET	ASTM D 3575-00	4.3%
COMPRESSION SET	ASTM D 3575-10-16	3.2%
BURSTING STRENGTH (BUBBLE PACK)	ASTM D 751-00 (BALL BURST)	95.1 LBF
BURSTING STRENGTH (BUBBLE PACK)	ASTM D 751-73 (MULLEN)	90 PSI
TEAR STRENGTH (CROSS WOVEN POLYETHYLENE)	ASTM D 1922 (TONGUE TEAR)	28 LBS (WARP), 33 LBS (FILL)
MAXIMUM USE TEMPERATURE	N/A	180° F
MINIMUM USE TEMPERATURE	N/A	-60° F
WATER VAPOR PERMEANCE	ASTM E 96	.002 PERMS CLASS A
*MATERIAL R-VALUE	ASTM C 518-04	5.9 HR-FT ² -°F/BTU
**SYSTEM R-VALUE	ASTM C 518-02	6.8 HR-FT ² -°F/BTU

*MATERIAL R-VALUE: ABOVE SHOWS THE R-VALUE OF INSUL-TARP (¾" MATERIAL ONLY) AT A 75° MEAN TEMPERATURE REGULATED BY FEDERAL GUIDELINES 16 CFR 460.5.

**SYSTEM R-VALUE: TESTED IN A CONCRETE SLAB CONFIGURATION CONSISTING OF A 4" CONCRETE SLAB, ¾" INSUL-TARP INSULATION (½" COMPRESSED), 2" GRAVEL AND 1" SAND. THE TOTAL SLAB CONFIGURATION WAS APPROXIMATELY 8". THE INFORMATION BELOW SHOWS THE R-VALUE AT A 75° MEAN TEMPERATURE.

ROLL SIZE	6' x 25'	12' x 25'	2' x 50'	3' x 50'	4' x 50'	6' x 50'	12 x 50'
LENGTH	25'	25'	50'	50'	50'	50'	50'
WIDTH	6'	12'	2'	3'	4'	6'	12'
SQ FT / ROLL	150 FT ²	300 FT ²	100 FT ²	150 FT ²	200 FT ²	300 FT ²	600 FT ²

READ THIS BEFORE YOU BUY

THE CHART SHOWS THE R-VALUE OF THIS INSULATION. R MEANS RESISTANCE TO HEAT FLOW. THE HIGHER THE R-VALUE, THE GREATER THE INSULATING POWER. COMPARE INSULATION R-VALUES BEFORE YOU BUY. THERE ARE OTHER FACTORS TO CONSIDER. THE AMOUNT OF INSULATION YOU NEED DEPENDS MAINLY ON THE CLIMATE YOU LIVE IN. ALSO, YOUR FUEL SAVINGS FROM INSULATION WILL DEPEND UPON THE CLIMATE, THE TYPE AND SIZE OF YOUR HOUSE, AMOUNT OF INSULATION ALREADY IN YOUR HOUSE, AND YOUR FUEL USE PATTERNS AND FAMILY SIZE. IF YOU BUY TOO MUCH INSULATION, IT WILL COST YOU MORE THAN WHAT YOU'LL SAVE ON FUEL. TO GET THE MARKED R-VALUE, IT IS ESSENTIAL THAT THIS INSULATION BE INSTALLED PROPERLY.

NOTE:

TO THE BEST OF OUR KNOWLEDGE, THE SPECIFICATION CHART ON PAGE ONE LISTS TYPICAL PROPERTY VALUES AND ARE INTENDED AS GUIDES ONLY, NOT AS SPECIFICATION LIMITS. ISI BUILDING PRODUCTS MAKES NO WARRANTIES AS TO THE FITNESS FOR A SPECIFIC USE OR MERCHANTABILITY OF PRODUCTS REFERRED TO, NO GUARANTEE OF SATISFACTORY RESULTS FROM RELIANCE UPON CONTAINED INFORMATION OR RECOMMENDATIONS AND DISCLAIMS ALL LIABILITY FOR RESULTING LOSS OR DAMAGE.

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