



BUILDING TRUST



PRODUCT DATA SHEET

R-Matte Plus-3

Sika® Pro Select Rmax® High Performance Polyiso Foam Board Insulation

DESCRIPTION

R-Matte Plus-3 is an energy-efficient thermal insulation board composed of a closed-cell polyisocyanurate (polyiso) foam core bonded to reinforced aluminum facers on each side. While one side of the board has a reflective surface, the other side has been coated to have a nonreflective white matte surface. Boards can be installed with either the silver or white side out. For additional radiant barrier properties, install silver side against air space if one exists.

USES

Continuous insulation of:

- stud / cavity / masonry / foundation walls
- exterior stucco
- attic & crawl spaces
- limited roofing
- vaulted ceilings
- under floor slabs
- interior side of footings

CHARACTERISTICS / ADVANTAGES

- Best in class fire resistance
- Eliminates the need for house wrap
- Closed-cell polyisocyanurate (polyiso) foam core
- Lightweight & easy to cut
- Durable & easy to install
- Moisture resistant
- Reinforced aluminum facers on each side
- Higher R-Value = Greater Insulation Power

PRODUCT INFORMATION

Composition	Closed-cell polyisocyanurate foam bonded to reinforced aluminum facers				
Packaging	Thickness	Width x Height	R-Value	Boards/Bundle	Material No.
	1/2 in.	4 ft. x 8 ft.	3.2	96	637902
	3/4 in.	4 ft. x 8 ft.	5.0	60	637901
	1 in.	4 ft. x 8 ft.	6.0	48	637900
	1-1/2 in.	4 ft. x 8 ft.	9.6	32	637899
	2 in.	4 ft. x 8 ft.	13.1	24	637898
Shelf life	N/A				

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Storage conditions

Store boards indoors. Short-term outdoor storage is necessary, boards should be stored flat above ground on raised pallets, placed bundles on finished surfaces, cover with a breathable tarpaulin and secure cover to prevent wind displacement.

Appearance

One side of the board has a reflective surface, while the other side has been coated to have a non-reflective white matte surface

TECHNICAL INFORMATION

Typical Physical Properties

Physical properties shown are based on data obtained under controlled conditions and are subject to normal manufacturing tolerances.

Property	Test Method	Results
Density, Overall, Nominal	ASTM D1622	2.0 pcf
Compressive Strength	ASTM D1621	20 psi ¹
Flexural Strength	ASTM C203	60 psi
Flame Spread, Core ²	ASTM E84	75 or less
Smoke Developed, Core ²	ASTM E84	< 450
Air Permeance	ASTM E2178	< 0.02 L/(s•m ²)
Water Vapor Permeance	ASTM E96	< 0.1 perm
Water Absorption	ASTM C209	< 0.2% Vol.
Dimensional Stability, Length and Width	ASTM D2126	< 1% Linear Change
Mold Resistance	ASTM D3273	10, no defacement
Service Temperatures		250°F max

¹Less than 1" is standard at 16 psi.

²Flame spread and smoke numbers are shown for comparison purposes only and are not intended to represent the performance of R-Matte® Plus-3 and related components under actual fire conditions.

BASIS OF PRODUCT DATA

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

LIMITATIONS OF USE

- R-Matte Plus-3 should not be used as commercial roof insulation directly under membrane systems.
- This product is not a structural panel and must not be used as a nailing base for any other building products. The structure must be properly braced for lateral loads and uplift according to the requirements of the local building codes.
- In areas with a high likelihood of termite infestation, except where permitted by code, boards shall not be installed on the exterior face or under interior or exterior foundation walls or slab foundations located below grade, and the clearance between insulation boards installed above grade and exposed earth shall be at least 6". Consult the Local Building Official for specific governing codes and requirements.

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IMPORTANT CONSIDERATIONS

Polyisocyanurate foam is an organic material, which will burn when exposed to an ignition source of sufficient heat and intensity and may contribute to flames spreading.

Installations utilizing R-Matte Plus-3 must be fully protected on the inhabited side of the building by a thermal barrier such as a minimum of 1/2" gypsum wallboard. Consult local building codes and insurance authorities regarding special applications or details required when using R-Matte Plus-3 as an exposed product in uninhabited spaces.

Per the IBC, a WRB is required behind the exterior wall veneer. The code also has provisions regarding vapor retarders, type and location, based on the assembly, climate zone and the amount of continuous insulation. It is up to the design professional to specify an assembly that will perform adequately and meet these requirements.

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

SUBSTRATE PREPARATION

Before beginning installation, all surfaces shall be clean and free of irregularities that will affect the placement or performance of the insulation including, but not limited to, dirt, debris, miscellaneous fasteners, or warped, defective, or otherwise damaged framing.

APPLICATION

General Installation Instructions

R-Matte Plus-3 must be separated from the interior side of the building by a suitable thermal barrier or ignition barrier when required. Refer to the Local Building Official for general exceptions and specific governing codes and requirement. Consult Rmax® for special testing and exceptions on thickness of 1" or less.

All material installed over R-Matte Plus-3 (thermal barrier, ignition barrier, furring strips, interior finishes, veneers, roof systems, etc), must be mechanically attached through the insulation to the framing/structure according to the building code.

Walls and Ceilings

Attach insulation boards to framing or other finished

surface. Starting at one corner/edge, install boards continuously and tightly abutted to cover entire surface.

- Where insulation is cut to accommodate penetrations, voids and gapping should be minimized. Voids and gaps can be filled and sealed using a high quality insulation sealant/adhesive such as Sikaflex®-709 Insulation Sealant & Adhesive.
- When using an adhesive such as Sikaflex®-709 Insulation Sealant & Adhesive, to secure boards, apply the adhesive to the finished surface. Press/hold the board firmly until adhesive is set.
- When using mechanical fasteners to secure boards, use fasteners with sufficient length to penetrate framing or finished surface (minimum 3/4" in wood or minimum 29/64" into steel). Use a minimum of eight fasteners, spaced evenly throughout the board.
- Where multiple rows or layers of insulation exist, stagger joints.

When using these boards as a vapor retarder, Water-Resistive Barrier (WRB) and/or the air barrier, the following measures must be taken to ensure a complete barrier: All insulation joints, as well as any breaks or other damage to the face in the insulation but be sealed with a pressure sensitive tape, such as SikaSeal®-148 Insulation Seam Tape or equivalent.

- All perimeter edges, transitions and fenestrations shall be sealed to the exterior face of R-Matte Plus-3 with appropriate flashing including, but not limited to, exposed foam edges, wall to floor, and wall to roof transitions, windows, doors, etc.
- All penetrations made through the exterior plane of the WRB and/or air barrier shall be sealed using tape, flashing, caulk, or other water/air sealing method.

Floors and Below Grade

Attach insulation boards to finished surface.

- Install R-Matte Plus-3 over specially prepared base of crushed stone for slab on grade constructions or on existing slab for floor and radiant floor slab constructions.
- Starting at one corner/edge, install boards continuously and tightly abutted to cover entire surface.
- Where insulation is cut to accommodate penetrations, voids and gapping should be minimized. Voids and gaps can be filled and sealed using a high quality insulation sealant/adhesive such as Sikaflex®-709 Insulation Sealant & Adhesive.

Roofs

Attach insulation boards to suitable roof deck (tongue-and-groove timber, plywood, or metal deck).

- Secure boards to roof deck with enough fasteners to hold it in place until the nailing surface or roof cover system is attached through the insulation to the deck.
- Starting at one corner/edge, install boards continuously and tightly abutted to cover entire surface.
- Where insulation is cut to accommodate penetrations, voids and gapping should be minimized. Voids and gaps can be filled and sealed using a high quality insulation sealant/adhesive such as Sikaflex®-709 Insulation Sealant & Adhesive.

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- When using mechanical fasteners to secure the boards, use screw and plate type fasteners with sufficient length to penetrate the deck (minimum 1" into wood or minimum ¾" into steel).

It is strongly recommended to follow the guidelines of the National Roofing Contractors Association (NRCA) when it comes to the use of a vapor retarder in any insulated roofing assembly, as well as its location within the system.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION

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 www.drylok.com or by calling SIKA's Technical Service Department at 1-800-272-3235. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and 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.

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