

TK-AIRMAX® 2101

Non-Permeable Air Barrier

Fluid Applied Air and Vapor Barrier | Division 7: Section 072726

Item No. TK-2101

PRODUCT DESCRIPTION

TK-AIRMAX® 2101 NON-PERMEABLE is a single-component, cold applied, thermoplastic air/vapor barrier that serves as an impermeable barrier coat for the interior of single wythe and other wall surfaces.

Features:

- Provides a continuous and permanent air/vapor barrier that prevents the penetration of air and moisture into interior walls and wall cavities.
- Minimizes air movement through exterior walls resulting in energy savings.
- Unlimited UV resistance.
- Non-breathable and non-elastomeric.

USES:

Suitable for use on single wythe, concrete and masonry walls and exterior grade gypsum sheathing surfaces. Applications include masonry walls, masonry cavity walls and poured or precast concrete walls.

APPLICATION PROCEDURES:

PREPARATION:

Material is ready for use and requires no mixing unless signs of separation are observed. It is unlawful to further reduce with non-exempt solvents.

New Concrete preparation - New concrete should be allowed to cure until the surface appears dry. Concrete block and walls that have been laid or poured late in the year should be allowed to gain sufficient strength for proper adhesion with this product.

Existing Concrete preparation - Existing concrete surfaces must be thoroughly cleaned prior to application. All previous coatings and foreign materials must be removed.

All masonry block and poured concrete voids, form tie holes, cracks and honeycombed areas should be filled and footings cleaned. Mortar smears, dirt and form release agents that will affect adhesion should be removed. TK-AIRMAX® 2101 NON-PERMEABLE should be applied directly to clean and dry concrete surfaces only.

EQUIPMENT:

Recommended sprayer is a Graco 733/833 airless with a 4000 psi stall pressure. Use a combination of a 1/2" to 3/8" pressure rated hose with a 0.037 reversible tip. Back rolling may be accomplished with a quality 1/2" to 1" nap roller. Brush and/or roller will work for smaller applications.

APPLICATION:

Exterior/Interior Walls:

TK-AIRMAX® 2101 NON-PERMEABLE should be applied by spraying and back rolling to achieve a continuous and

TECHNICAL DATA

Composition and Materials:	Polystyrene in aromatic hydrocarbon blend solvent
% Solids by Weight:	46-47%
Flash Point:	Flammable, less than 100°F
Drying Time:	1 hour 4-8 hours
	Tack Free Full Cure
VOC Content:	< 600 g/l
A.I.M. Category:	Waterproofing Sealers and Treatments Maximum VOC 600 g/l

TESTING DATA

Applicable Standard	Testing Requirements	Product Performance
NFPA 285: Fire Propagation Characteristics	Pass/Fail	Pass

uniform coating. Following application, inspect all surfaces for complete and consistent coverage. Material may be reapplied at any time and as needed for desired coverage. Allow adequate drying time before resuming work.

Exterior Gypsum Sheeting:

Apply by brush, spray or roller directly to exterior sheathing panels (i.e. exterior drywall, oriented strand board (OSB) plywood and glass faced board). Fasten corners and edges with appropriate screws. Fasteners should be driven flush with the panel surface rather than countersunk. It is recommended that all joints and seams be pre- or post-caulked with TK-SUPER SEAL PE™ or taped with TK-CLIMATE FLASH™. All gypsum corners need to be taped with TK-CLIMATE FLASH™.

Penetrations:

Transition and Control Joints - Joints between 1/32" and 3/8" should be pre- or post-caulked with TK-SUPER SEAL PE™. Allow caulking membrane to cure before applying TK-AIRMAX® 2101 NON-PERMEABLE by spray, brush or roller.

Larger Joints - Joints larger than 3/8" should be detailed with TK-CLIMATE FLASH™.

Flanges for Windows and Doors:

Flanges may be connected using one or a combination of the following: TK-SUPER SEAL PE™, TK-CLIMATE FLASH™.

*Details for proper application are available on the TK Products website.

Large Openings:

Openings greater than 3/8" should be covered with TK-CLIMATE FLASH™ after coating the substrate with TK-AIRMAX® 2101 NON-PERMEABLE and allowing the membrane to dry. On expansion joints, apply TK-AIRMAX® 2101 NON-PERMEABLE directly to the substrate, allow to cure, then apply TK-CLIMATE FLASH™ ovetop the cured membrane.

Single Wythe System Application:

For proper air barrier function in single wythe wall construction, apply TK-290 TRI-SILOXANE water repellent to the exterior of the wall per data specifications. This is in conjunction with application of TK-AIRMAX® 2101 NON-PERMEABLE to the interior of the wall.

Insulation Application:

Spray urethane foam froth packs may be used for large openings near roof decks and other gaps. Spray urethane foam, rigid insulation and Thermax may be attached once the product has cured for three days.

COVERAGE:

TK-AIRMAX® 2101 NON-PERMEABLE should be applied in a single coat at a rate of 40-55 square feet per gallon. Note that the coverage rate is inversely affected by the texture and porosity of the substrate, therefore substrates that are very porous will result in lower coverage rates (less square foot per gallon coverage). Total dry mil thickness should be 11-14 mils.

CLEAN UP:

Use TK-00 XYLENE to clean tools and equipment. Pump solvent through the spray equipment to remove material residue which can clog the hose and wand assembly.

MAINTENANCE:

Minimal maintenance is required. If weathering occurs, TK-AIRMAX® 2101 NON-PERMEABLE may be reapplied to the affected area.

LIMITATIONS:

- SAFETY PRECAUTIONS: A fitted organic/carbon filter respirator, and appropriate eye protection, must be worn at all times during application of this product.
- This product may be applied in temperatures ranging from 0°F to 100°F.

FIRST AID:

- Consult this product’s safety data sheet for additional health and safety information. Safety Data Sheets are available through TK distributors, the TK office and the TK website.

AVAILABILITY:

TK-AIRMAX® 2101 NON-PERMEABLE is available through TK Distributors. Contact TK Products for the nearest distributor.

Available in Pearl Gray color.

Packaged in 55-gallon drums and 5-gallon pails.

FOR PROFESSIONAL USE ONLY

AIRMAX® SYSTEM DETAIL ACCESSORY PRODUCTS
<p>The following tapes and caulks have been developed as accessory products for the AIRMAX® System</p> <ul style="list-style-type: none"> • CLIMATE FLASH™ Flashing Tape • SUPER SEAL PE™ Polyether Joint Sealant • SS Flashing™ Stainless Steel Flashing • TWF-18™ Stainless Steel Thru Wall Flashing <p>Please visit the TK Products website for more information, or to access technical data sheets for these products.</p>

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TK Products Construction Coatings

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