



**TK PRODUCTS**

Division of Sierra Corporation  
ISO 9001:2008 Certified

# TK-AirMax 2102 NP Non-Permeable Air Barrier

Division 7 Section: 072726

Meets Federal EPA's VOC Requirements

## 1. PRODUCT NAME

TK-AirMax 2102 Non-Perm (NP)

## 2. MANUFACTURER

TK PRODUCTS  
DIVISION OF SIERRA CORPORATION  
11400 West 47th Street  
Minnetonka, MN 55343  
952-938-7223  
952-938-8084 (FAX)  
E-mail: [tksales@tkproduct.com](mailto:tksales@tkproduct.com)  
Website: <http://www.tkproduct.com>

## 3. PRODUCT DESCRIPTION

TK-AirMax 2102 NP is a high performance rubberized polymer formulation. Its intended use is for and commercial cavity walls to prevent air and water movement, saving energy and preventing damage caused by moisture condensation such as structural damage, mold and mildew. The coating dries quickly to provide a continuous air/vapor, and water barrier. When applied at 17 to 22 mils dry, the rubberized polymer coating provides a continuous water drainage plane flashed to discharge to the exterior any incidental condensation or water penetration. It is chemically resistant to algae, bacteria, alkalis, acids and degradation from freeze/thaw or ultraviolet rays. TK-AirMax 2102 NP has a U.V. resistance of 18 months. It can be applied to brick, poured concrete, concrete block cavity walls surfaces. It can be sprayed, rolled, or brushed to give a continuous film.

### Basic Uses:

TK-AirMax 2102 NP is a elastomeric air barrier designed to minimize air movement through exterior walls resulting in energy savings. It provides an elastomeric, long-lasting water repellent coating for properly prepared exterior concrete, block, densglass, plywood, OSB board and exterior grade gypsum sheathing.

### TECHNICAL DATA

TK-AirMax 2102 NP is a single component liquid applied air barrier coating that is elastic and nonbreathable.

### Composition and Materials:

A rubberized polymer blend.

Non-Volatile Content:	48 - 50%
Color:	Charcoal Gray
Flash Point:	Flammable, less than 100°F
Drying Time:	1 hour (recoat immediately)
Tack Free:	
Full Cure:	24 - 48 hours (depending on ambient temperatures)

### Applicable Standards

TK-AirMax 2102 NP meets or exceeds the following standards (see back page for a chart detailing these standards).

- VOC Content: Less than 600 grams per liter.
- A.I.M. Category: Waterproofing Sealer and Treatment - maximum VOC 600 g/l.
- A.I.M. Definition: A coating formulated and recommended for application to a porous substrate for the primary purpose of preventing the penetration of water and air.
- USDA authorization for use in meat, poultry and food processing plants.

## 5. APPLICATION PROCEDURES AND INSTRUCTIONS

### Preparation:

Before buying and using this product, read completely this product's label, technical data sheet and Material Safety Data Sheet (MSDS); available where product is purchased.

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.

A clean, dry, surface is required when applying TK-AirMax 2102 NP. New concrete should be allowed to cure until the the free moving or bleed water is no longer present. Surface should be frost free. Concrete block laid and walls poured late in the year should be allowed to gain sufficient strength for good adhesion.

### Masonry:

CMU mortar must be struck flush and brushed or tooled.

All masonry block and poured concrete voids: form tie holes, honeycombed areas should be filled and repaired. Remove loose mortar, smears and dirt that will affect adhesion with a wire brush. TK-AirMax 2102 NP should be applied directly to the clean substrate surface.

### Exterior Gypsum Sheeting:

TK-AirMax 2102 NP can be applied directly to exterior sheathing panels, i.e. exterior drywall, orientated strand board (OSB), plywood, and glass faced board. Fasten corners and edges with appropriate screws. Fasteners should be driven flush with the panel surface (not countersunk). Any joints larger than 1/4" wide should be taped with a 2" wide sheathing tape or approved caulk. Surface should be clean, free of frost, or excess moisture.

### Penetrations:

Transition and Control Joints: joints of 1/32 - 3/8" should be filled with a vapor impermeable approved caulk. Joints greater than 3/8" should be covered with a TK approved non-shrink butyl tape or a self-adhering membrane after coating the substrate with TK-AirMax 2102 NP and allowing to dry.

### Flanges for Window or Doors:

Connect TK-AirMax 2102 NP to flanges with a vapor impermeable caulk or using a TK approved self adhered membrane. Details for proper application are on the TK Products website. Fasten a TK approved non-shrink butyl tape or self adhering flashing to the openings.

### Large Openings:

Openings greater than .350 - 1.0" should be first filled with compatible backing material made level with the substrate. Top coat with 40 - 50 wet mils of TK-AirMax 2102 NP. An alternative is to cover the opening with a TK approved non-shrink butyl tape or self adhered membrane after coating the substrate with TK-AirMax 2102 NP and allowing to dry.

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**Application:**

A typical sprayer is a Graco 733 or 833 with a working pressure of 3500 psi or a 45:1 pneumatic sprayer with a tip size .035 to .039. Brush and/or roller will also work for small applications or touch up.

**Coverage:**

The coverage rate of TK-AirMax 2102 NP is inversely affected by the texture and porosity of the substrate. One coat is sufficient when applied at 40-60 ft<sup>2</sup>/gallon, or 27-40 wet mil film. This will give a dry film of 15-20 dry mils. Any area that is thin can be recoated.

**Limitations:**

TK-AirMax 2102 NP can only be applied at temperatures between 0°F and 100°F.

**Cleanup of Equipment:**

Use TK-00 Solvent. For sprayer, pump the solvent through the spray equipment to remove residue of materials which can clog the hose and wand assembly.

**Precautions:**

TK-AirMax 2102 NP contains aromatic hydrocarbon. Keep away from heat and flame. Prevent build-up of vapors. Use only with adequate ventilation. Do not inhale vapor or spray mist. If you experience eye watering, headaches or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, increase fresh air or wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Any person using a respirator must be trained on proper respirator use. Close container after each use. Avoid contact with eyes, skin, and clothing. Wash after handling.

KEEP OUT OF REACH OF CHILDREN. TK-AirMax 2102 NP is not toxic and is environmentally friendly and inert in its cured state.

**First Aid:**

If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention immediately; for skin, wash thoroughly with soap and water. If swallowed, do not induce vomiting. Call physician immediately. For further safety controls, Material Safety Data Sheets are available from TK Distributors, the TK office and the TK website. This information should be read before using this product.

**In Case of Fire:**

Use foam, CO<sub>2</sub>, dry chemical. Do not use water spray. Generic Name: Petroleum Distillates.

**Spills or Leaks:**

Contain spilled material and remove with an inert absorbent. Dispose of contaminated absorbent, container and unused content in accordance with local, state and federal regulations.

**6. AVAILABILITY**

TK-AirMax 2102 NP is available through TK distributors. Contact TK Products for your authorized distributor.

Packaged in 55-gallon dru, and 5-gallon pails.

**7. CONDITIONS OF SALE/ LIMITED WARRANTY**

TK Products, division of the Sierra Corporation, warrants that its products conform to the label descriptions, are free from manufacturing defects, and are fit for the ordinary purposes for which such goods are used. Inasmuch as the use of TK Products' product by others and other factors affecting product performance are beyond TK Products' control, TK Products does not guarantee the results to be obtained. There are no warranties except as stated herein, either express or implied, including implied warranties of merchantability or fitness for a particular purpose. SHOULD ANY TK PRODUCTS' PRODUCT FAIL TO GIVE SATISFACTORY RESULTS, TK PRODUCTS WILL REPLACE THE PRODUCT, OR AT ITS OPTION, REFUND THE PURCHASE PRICE. THIS IS THE SOLE AND EXCLUSIVE REMEDY FOR ANY FAILURE OF TK PRODUCTS' PRODUCTS TO PERFORM AS WARRANTED AND SHALL ALSO CONSTITUTE LIQUIDATED DAMAGES IN CASE OF LOSS. UNDER NO CIRCUMSTANCES SHALL THE BUYER BE ENTITLED TO ANY OTHER REMEDY OR DAMAGES. REMEDIES FOR INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE SPECIFICALLY EXCLUDED. TK Products does not authorize any person to assume for it any other liability in connection with the sale or use of its products unless specifically authorized by TK Products in writing.

**8. TECHNICAL SERVICES**

The TK office offers assistance with specifications, performance test data and field services.

**9. FILING SYSTEMS**

Information Handling Services  
PO Box 1213  
Englewood, CO 80150  
Information Marketing Services  
13271 Northend  
Oak Park, MI 48237

**TK DISCLAIMER:**

Every effort has been made to ensure the accuracy of the above information and to avoid infringement of any patent or copyright. The information is based on field tests by government and private agencies, as well as lab tests, and on technical data from raw material manufacturers. The person(s) specifying or requesting the use of these products is responsible for assuring their suitability for a specific use, as well as the proper application of the products. Where there is any question as to the suitability of a particular product, a small test patch is recommended. See also CONDITIONS OF SALE/ LIMITED WARRANTY (Section 7) above.

**FOR INDUSTRIAL USE ONLY****12/09**

Applicable Standards	ASTM and/or ABAA Requirements	TK-2102 AirMax NP Performance
ASTM E-2178 - Standard Test Method for Air Performance of Building Materials	<0.004 CFM/ft <sup>2</sup>	0.0004 CFM/ft <sup>2</sup>
ASTM E-2357 - Standard Test Method for Determining Air Leakage of Air Assemblies	<0.20 L/(s.m <sup>2</sup> ) @ 75 Pa	0.004 L/(s.m <sup>2</sup> ) @ 75 Pa 0.0008 CFM/ft <sup>2</sup>
ASTM E 96-00 - Water Vapor Transmission and Vapor Permeability Test, Procedure B		Permeance 0.05 Perms V. Permeability 0.0015 perm inch
ASTM C1305 - Exhibited no cracking or loss of adhesion upon completion of 10 cycles of movement at -15°F		Pass
ASTM C1306 - Hydrostatic Pressure Resistance		Passed long-term test
ASTM C1522 - Extensibility After Heat Aging		No cracks, tears or holes observed after extending the membrane
ASTM D2939 - Resistance to Water		No blistering or softening
ASTM C836-03 - Sec. 6.10: Optional Test for Adhesion in Peel - Average Adhesion Strength	1.0 lbf/inch	11.9 lbf/inch