

# TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER

Division 7 Section: 072726

Meets Federal EPA's VOC Requirements

Complies with California Air Resource Board (CARB),  
South Coast Air Quality Management District (SCAQMD)  
and OTC/LADCO



Division of Sierra Corporation  
ISO 9001:2008 Certified

## 1. PRODUCT NAME

TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER

## 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 2103 WB NON-PERM RUBBERIZED AIR BARRIER is a water based, high performance rubberized polymer formulation. Its intended use is for 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 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. TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER has a U.V. resistance of 12 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 2103 WB NON-PERM RUBBERIZED AIR BARRIER 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, denglass, plywood, OSB board and exterior grade gypsum sheathing.

## 4. TECHNICAL DATA

TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER is a water based single component liquid applied air barrier coating that is elastic and non-breathable.

## COMPOSITION AND MATERIALS

*Rubberized polymer blend*

-Non-Volatile Content: 40-41%

-Color: Dark Gray

-Flash Point: No flash, aqueous system

-Drying Time: 2-4 hours tack free, recoat immediately, full cure in 24-72 hours.

## RESISTANCE TO:

Abrasion	Good
Acid	Good
Alkali	Excellent
Humidity	Good
Petroleum Products	Poor
Weather	Good

## APPLICABLE STANDARDS

-ASTM E 96-92 Water Vapor Transmission and Permeability Test, water method, less than 1 perm.

-VOC- less than 100 grams per liter

-A.I.M. Category: Waterproofing Sealer and Treatment, maximum VOC 600g/l

-A.I.M. Definition: A coating that is formulated and recommended for application to a porous substrate for the primary purpose of preventing the penetration of water.

## 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 2103 WB NON-PERM RUBBERIZED AIR BARRIER.

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 tooled at a minimum.

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 2103 WB NON-PERM RUBBERIZED AIR BARRIER should be applied directly to the clean substrate surface.

### Exterior Gypsum Sheeting:

TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER 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, it is recommended but not required to cover all screw heads and joints with TK-AirMax 2203 Caulk, TK-AirMax 2200 All Weather Flashing Tape, TK-AirMax 2201 Sheathing Tape or equivalent sheathing tape or caulk. Surface should be clean, free of frost, or excess moisture.

### Penetrations:

Transition and Control Joints: joints of 1/32 - 3/8" should be detailed with TK-AirMax 2203 Caulk, TK-AirMax 2200 All Weather Flashing Tape, TK-AirMax 2201 Sheathing Tape or equivalent sheathing tape or caulk. Allow caulking membrane to cure before applying AirMax 2103. Joints greater than 3/8" should be covered with TK-AirMax 2200 All Weather Flashing Tape or TK-AirMax 2201 Sheathing Tape after coating the substrate with TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER and allowing to dry.

### Flanges for Window or Doors:

Connect TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER to flanges with a vapor impermeable caulk or using TK-AirMax 2200 All Weather Flashing Tape. Details for proper application are on the TK Products website.

### Large Openings:

Openings greater than .350 - 1.0" should be detailed to cover the opening with TK-AirMax 2200 All Weather Flashing Tape after coating the substrate with TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER and allowing to dry.

### Equipment:

A typical sprayer is a Graco 7900 with a working pressure of 3300 psi that delivers 2.1 gallons/minute with a tip size 0.027 to 0.033. Use a 3/8" pressure rated hose. Brush and/or roller will also work for small applications or touch up.

### COVERAGE

One coat is sufficient when applied at 36-40 square feet per gallon, or 40-45 wet mil film. Any area that is thin can be recoated. Total cured coating will be 23-28 dry mil.

### LIMITATIONS

TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER can be applied when the air and substrate temperatures are greater than 40 °F, and will remain so through the application of the coating. Keep the product from freezing. This product should not be applied to rigid insulation or over silicone rubber sealants or caulks. TK- 2103 should be fully cured before rigid insulation is installed over the membrane. TK-2103 WB NON-PERM RUBBERIZED AIR BARRIER is not resistant to aromatics, ketones or esters type solvents.

### CLEAN UP OF EQUIPMENT

Clean all equipment, tools, and spills with soap and water before the material dries.

### PRECAUTIONS

TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER contains latex resins and a minimal amount of ammonia. Excessive and prolonged exposure may result in headache, nausea and eye or lung irritation. Always review the Material Safety Data Sheet before using this product.

### FIRST AID

Ingestion: Induce vomiting and call a physician immediately. Eye Contact: Do not rub eyes, flush with clean water for 15 minutes. Skin Contact: Remove by washing thoroughly with soap and water. If eye or skin irritation continues, obtain medical assistance.

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.

### 6. AVAILABILITY

TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER is available through TK Distributors. Contact TK Products for your authorized distributor.

Packaged in 55 gallon drums and 5 gallon pails.

### MAINTENANCE

Minimal maintenance is required. If weathering does occur to the exposed area, TK-AIRMAX 2103 WB NON-PERM RUBBERIZED AIR BARRIER can be reapplied to the affected area.

### 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

Applicable Standards	TK-AirMax 2103 Performance
ASTM E2178 - Standard Test Method for Air Performance of Building Materials	0.00097 cfm/ft <sup>2</sup>
ASTM E2357 - Standard Test Method for Determining Air Leakage of Air Assemblies	0.0009 cfm/ft <sup>2</sup> (0.005 L/s/m <sup>2</sup> ) @ 75 Pa
ASTM E96 - Permeability	0.5 Perms
ASTM D412 - Tensile Strength and Elongation	500%
ASTM D 3359-93 - Adhesion	No peeling
ASTM D4541 - Adhesion Strength	164.2 psi
AATCC Test Method 127 - Water Resistance	Pass
ASTM D1970 - Self Sealability	Pass