TK-AIRMAX® 2104 VAPOR PERMEABLE is a high performance, water borne liquid applied air barrier for use on both residential and commercial cavity walls. TK-AIRMAX® 2104 VAPOR PERMEABLE creates a seamless, tough film to act as a solid barrier against air leakage (infiltration/exfiltration), resulting in energy savings while also restricting moisture condensation which could lead to structural damage, mold or mildew.

Features:
- Reduces air flow through exterior walls, resulting in energy savings.
- Creates a tough, seamless, elastomeric film with superior water repellency.
- Bridges cracks and moves with the substrate throughout a wide range of temperatures.
- Maintains flexibility throughout multiple weathering cycles - contains no plasticizers and will not become hard or brittle through many years of exposure.
- Forms a film which is repellent to wind driven rain, yet is permeable to water vapor to allow unwanted moisture to escape the occupied area and substrate.
- Excellent resistance to dirt, acid, alkali, airborne pollutants, mildew and degradation from freeze/thaw cycles and ultraviolet rays.
- Provides UV resistance for 12 months.

Uses:
Suitable for use on commercial and residential cavity walls. May be applied to any properly prepared interior or exterior concrete, block, plywood, OSB board and exterior grade gypsum sheeting.

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. A clean, dry and frost free surface is required. The substrate should be free of screws, sharp protrusions, or other matter that will prevent product adhesion.

New Concrete preparation - New concrete should be allowed to cure until free moving or bleed water has completely dissipated. 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.

Equipment:
A typical sprayer is a Graco 7933 capable of delivering 2.1 gallons per minute. Use a 3/8" pressure rated hose with a tip size of .035 to .039. Brush and/or roller application will work on smaller jobs or touch ups.

PRODUCT DESCRIPTION

TECHNICAL DATA

<table>
<thead>
<tr>
<th>Weight per gallon:</th>
<th>11.7 lbs</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Solids by Weight:</td>
<td>54% +/- 2%</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>No flash, aqueous system</td>
</tr>
<tr>
<td>Drying Time:</td>
<td>Tack Free Full Cure</td>
</tr>
<tr>
<td></td>
<td>2-4 hours</td>
</tr>
<tr>
<td></td>
<td>24-72 hours (dependent on ambient temperatures &amp; humidity)</td>
</tr>
<tr>
<td>VOC Content:</td>
<td>&lt; 100 g/l</td>
</tr>
<tr>
<td>A.I.M. Category:</td>
<td>Waterproofing Sealers and Treatments</td>
</tr>
</tbody>
</table>

TESTING DATA

<table>
<thead>
<tr>
<th>Applicable Standard</th>
<th>ASTM or ABAA requirements</th>
<th>Product Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM E2178: Air Performance of Building Materials</td>
<td>&lt;0.02 L/(s•m²) = 0.004 CFM/ft²</td>
<td>&lt;0.0034 L/(s•m²) = 0.0008 CFM/ft²</td>
</tr>
<tr>
<td>ASTM E2357: Air Leakage of Air Assemblies</td>
<td>&lt;0.20 L/(s•m²) = 0.04 CFM/ft²</td>
<td>0.006 L/(s•m²) = 0.00012 CFM/ft²</td>
</tr>
<tr>
<td>NFPA 285: Fire Propagation Characteristics</td>
<td>Pass/Fail</td>
<td>Pass</td>
</tr>
<tr>
<td>ASTM E84: Surface Burning Characteristics</td>
<td>N/A</td>
<td>Class A, &lt;25 flame spread</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Class A, &lt;450 smoke spread</td>
</tr>
<tr>
<td>ASTM E96: Vapor Permeability</td>
<td>(Declared Value)</td>
<td>17.619 Perms</td>
</tr>
<tr>
<td>ASTM C1305: Crack Bridging Ability</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>ASTM D1970: Seal Sealability</td>
<td>Pass</td>
<td>Pass</td>
</tr>
<tr>
<td>ASTM D412: Tensile Strength Elongation</td>
<td>N/A</td>
<td>248 psi 713%</td>
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<tr>
<td>ASTM D4541: Adhesion Strength</td>
<td>&gt; 110 kPa</td>
<td>970 kPa 140.7 psi</td>
</tr>
<tr>
<td>ASTM D3274/D3273: Fungus and Mildew Resistance</td>
<td>N/A</td>
<td>Pass</td>
</tr>
<tr>
<td>ASTM E882: Accelerated Weathering</td>
<td>N/A</td>
<td>Pass</td>
</tr>
<tr>
<td>ASTM C666: Freeze/Thaw Resistance</td>
<td>N/A</td>
<td>Pass</td>
</tr>
<tr>
<td>AATCC Test Method 127: Water Resistance</td>
<td>&gt; 55 cm</td>
<td>55 cm</td>
</tr>
</tbody>
</table>

ISO 9001 CERTIFIED

LADCO

OCTO

ltrDC

CARB

AQMD

CANADA
APPLICATION:
Masonry:  
CMU mortar must be tooled at a minimum. Any voids, form tie holes and honeycombed areas should be filled and repaired. Use a steel or hammer side brush to remove loose mortar, smears and dirt that will affect proper adhesion. Remove mortar droppings from form ties, anchors and footings. Apply TK-AIRMAX® 2104 VAPOR PERMEABLE by spray, brush or roller directly to the surface.

Exterior Gypsum Sheeting:  
Apply by spray, brush 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 pre- or post-taped with TK-CLIMATE FLASH™ 2200. All gypsum corners need to be taped with TK-CLIMATE FLASH™.

*Do NOT pre-tape with TK-CLIMATE FLASH™ 2200 NL.

Penetrations:  
Transition and Control Joints - Joints between 1/32” and 3/8” should be pre- or post-caulked with TK-SUPER SEAL PE™ or TK-CLIMATE FLASH™ 2200. Allow caulking membrane to cure before applying TK-AIRMAX® 2104 VAPOR PERMEABLE by spray, brush or roller.

Larger Joints - Joints larger than 3/8” should be detailed with TK-CLIMATE FLASH™2200.

Flanges for Windows and Doors:  
Flanges may be connected using one or a combination of the following: TK-SUPER SEAL PE™ or TK-CLIMATE FLASH™ 2200.  *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™ 2200 after coating the substrate with TK-AIRMAX® 2104 VAPOR PERMEABLE and allowing the membrane to dry. On expansion joints, apply TK-AIRMAX® 2104 VAPOR PERMEABLE directly to the substrate, allow to cure, then apply TK-CLIMATE FLASH™ 2200 overtop the cured membrane. Caulk edges with TK-SUPER SEAL™.

COVERAGE:  
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). One coat of TK-AIRMAX® 2104 VAPOR PERMEABLE is sufficient when applied at 36-40 square feet per gallon, or 40-45 wet mil film. Any area that is thin may be recoated. Total cured coating will be 18-24 dry mils.

LIMITATIONS:
• Do not apply when ambient or substrate temperature is below 40°F or is expected to fall below 40°F within the cure time of the coating.
• Do not apply if precipitation is expected within the cure time of the coating.
• Cure times are significantly extended by low temperatures and/or high humidity. In ideal conditions (70°F/50% relative humidity), cure time is approximately 24 hours.
• Do not apply to wet, damp or frosty substrates.
• Maximum allowable moisture content of the substrate is 17%.
• This product should not be applied over silicone rubber sealants or caulks.
• This product should be fully cured before rigid insulation is installed over the membrane.
• This product is not resistant to aromatic, ketone or ester-type solvents.

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® 2104 VAPOR PERMEABLE is available through TK distributors. Contact TK Products for the nearest distributor.

Available in Dark Gray color.

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

FOR PROFESSIONAL USE ONLY

TK Products Construction Coatings
11400 West 47th Street Minnetonka, MN 55343
800-441-2129 toll free  |  952-938-8084  fax  |  www.tkproducts.com

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