

PRODUCT DESCRIPTION

TK-CLIMATE TECH™ is a liquid membrane applied system providing complete protection against weather and climatic effects to gypsum sheathing, plywood, OSB board, CMU, precast and concrete. Because it does not rely on plastics or fabrics which can tear, puncture or rip (thus resulting in costly exposure of the sheathing and wall cavities to the elements), the CLIMATE TECH™ system far out-weighs traditional housewraps in both value and performance.

Features:

- Forms a tough, seamless, and uninterrupted film that is resistant to water, mildew, dirt, chemicals and ultraviolet rays.
- Applies directly to the surface and permanently adheres for protection that will not shift or blow off in high wind conditions.
- Offers superior flexibility, elongation and recovery properties which allow it to bridge cracks and move with the substrate throughout a wide range of temperatures.
- Restricts air flow through exterior walls for increased energy efficiency.
- Permeable to water vapor to prevent moisture build-up in interior wall cavities.
- Provides UV resistance for 12 months.

USES:

Suitable for commercial and residential application to exterior gypsum sheathing, plywood and OSB board.

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.

EQUIPMENT:

A typical sprayer is a Graco 7900 with a working pressure of 3300 psi, capable of delivering 2.1 gallons per minute and a tip size of 0.031 to 0.035. Use a 3/8" pressure rated hose. Brush and/or roller application will work on smaller jobs or touch ups.

APPLICATION:

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. All corners should be taped with TK-CLIMATE FLASH™. Accessory products may be pre- or post-applied to the TK-CLIMATE TECH™ application. If post-applied, TK-CLIMATE TECH™ must be fully cured.

TECHNICAL DATA

Application Temperatures:	35°F - 100°F
Application Thickness:	14-22 wet mils
Flash Point:	No flash, aqueous system
Drying Time:	
Tack Free	< 30 minutes
Full Cure	< 8 hours
VOC Content:	< 100 g/l
A.I.M. Category:	Waterproofing Sealers and Treatments Maximum VOC 600 g/l

Applicable Standard	ASTM or ABAA requirements	Product Performance
ASTM E2178: Air Performance of Building Materials	<0.02 L/(s•m ²) = 0.004 CFM/ft ²	<0.0034 L/(s•m ²) = 0.0008 CFM/ft ²
ASTM E2357: Air Leakage of Air Assemblies	<0.20 L/(s•m ²) = 0.04 CFM/ft ²	0.006 L/(s•m ²) = 0.00012 CFM/ft ²
NFPA 285: Fire Propagation Characteristics	Pass/Fail	Pass
ASTM E84: Surface Burning Characteristics	N/A	Class A, <25 flame spread Class A, <450 smoke spread
ASTM E96: Vapor Permeability	(Declared Value)	12.8 Perms
ASTM D412: Vulcanized Rubber/ Thermoplastic Elastomers	N/A	118% @ 32°F
ASTM C1305: Crack Bridging Ability	Pass	Pass
ASTM D1970: Seal Sealability	Pass	Pass
ASTM D4541: Adhesion Strength	> 110 kPa	970 kPa 140.7 psi
ASTM D3274/D3273: Fungus and Mildew Resistance	N/A	Pass
ASTM E882: Accelerated Weathering	N/A	Pass

Penetrations:

Transitions, Seams and Control Joints - Joints should be filled with TK-SUPER SEAL PE™ and allowed to fully cure before application of TK-CLIMATE TECH™ by spray, brush or roller. Gaps and seams of less than 1/16" may be detailed by applying a heavy bead of fluid applied TK-CLIMATE TECH™.

Larger Joints - Larger joints should be covered with TK-CLIMATE FLASH™ before or after application of TK-CLIMATE TECH™.

Flanges for Windows and Doors:

Flanges may be connected using either TK-SUPER SEAL PE™ or TK-CLIMATE FLASH™.

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-CLIMATE TECH™ is sufficient when applied at 70-85 square feet per gallon over OSB. Any area that is thin may be recoated.

CLEAN UP:

Equipment may be cleaned with a solution of mild detergent and water.

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.
- KEEP FROM FREEZING.

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-CLIMATE TECH™ is available through TK Distributors. Contact TK Products for the nearest distributor.

Available in Black.

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

FOR PROFESSIONAL USE ONLY

CLIMATE TECH™ DETAIL ACCESSORY PRODUCTS

The following tapes and caulks have been developed as accessory products for the CLIMATE TECH™ System

- CLIMATE FLASH™ Flashing Tape
- SUPER SEAL PE™ Polyether Joint Sealant
 - BUTYL BOND™ Poly Butyl Tape
- SS Flashing™ Stainless Steel Flashing
- TWF-18™ Stainless Steel Thru Wall Flashing

Please visit the TK Products website for more information, or to access technical data sheets for these products.

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