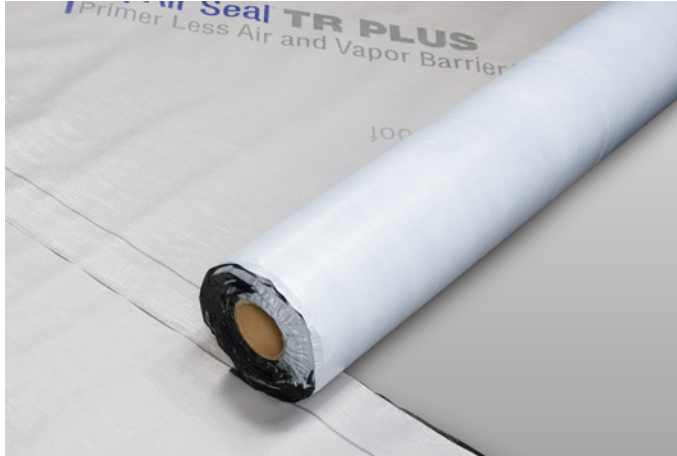


VapAir Seal™ TR PLUS

Primerless Air and Vapor Barrier/Temporary Roof



Overview

Carlisle's VapAir Seal TR Plus is a 30-mil high-performance self-adhering air and vapor barrier/temporary roof membrane designed to simplify installation and improve jobsite productivity. The membrane features a durable multilayer woven coated top sheet with a textured walking surface and a specialty butyl adhesive technology that eliminates the need for primer on approved substrates.

VapAir Seal TR Plus is supplied in a 60" x 120' roll, providing 600 ft² per roll (approximately 570 ft² of coverage after seaming). The factory-controlled membrane construction provides consistent air and vapor barrier performance, while the split release liner allows for efficient installation using either a traditional roll-in method or "barn door" installation technique. VapAir Seal TR Plus is installed without primer over structural concrete or an approved mechanically fastened gypsum board, including: DensDeck® Prime, SECUROCK® Gypsum Fiber Roof Board, SECUROCK Ultralight Coated Glass Mat Roof Board, and DEXcell® FA Glass Mat Roof Board.

VapAir Seal TR Plus is an acceptable substrate for insulation adhered with Flexible FAST™ or mechanically fastened insulation. Its self-sealing properties reduce thermal loss through fastener punctures. Additionally, it can serve as a temporary roof for up to 180 days when installed in accordance with Carlisle's specifications and details.

Features and Benefits

- » Primerless application on approved substrates
- » Installs in temperatures as low as 15°F (-9°C) and rising
- » Split release liner simplifies installation
- » 5' (1.524 m)-wide roll reduces seams and installation time

- » 600 ft² per roll (570 ft² coverage)
- » Suitable for use as a temporary roof for up to 180 days
- » High-performance air and vapor barrier protection
- » Self-sealing for enhanced protection against thermal loss and moisture intrusion
- » FM Approved in all Carlisle assemblies over structural concrete
- » FM Approved with a maximum 1-120 rating in all Carlisle assemblies with a mechanically attached thermal barrier (gypsum board) over metal deck
- » Compatible with adhered and mechanically fastened insulation

Installation

Surface Preparation

The concrete surface shall be completely dry; dryness shall be determined by a qualified owner's representative. The surface shall have a smooth finish and be free of voids, spalled areas, sharp protrusions, loose aggregate, laitance, and form-release agents. Some curing compounds may interfere with proper adhesion, so an adhesion test is recommended. If the substrate becomes wet, it must be allowed to dry prior to membrane application. Artificial drying methods such as torches are not acceptable.

Adhesive

Surfaces to receive VapAir Seal TR Plus must be clean and dry. Priming of the substrate is not required.

Application

- » Material must be stored and kept above 50°F (10°C) prior to installation. Apply the membrane from low to high points in a shingle fashion so that laps will shed water. Overlap all edges by at least 3" (76 mm). End laps should be staggered.
- » Position the membrane carefully to avoid fish-mouths and wrinkles. This membrane features a split release liner to allow for a "barn door" installation method. The roll may be positioned in its final location and the liner removed in stages by folding back one half of the membrane, removing that portion of the release liner, and adhering it to the substrate. The process is then repeated on the opposite half. Alternatively, the membrane may be installed using a traditional roll-in method by removing the release liner as the membrane is unrolled.
- » Broom and roll the membrane immediately after installation using a 100- to 150-lb. roller wrapped in a resilient material to ensure proper adhesion. Vertical surfaces must be prepared in the same manner as horizontal surfaces and then rolled with a 2" or 4" hand roller.

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Seaming

Seal T-joints and step-offs with Universal Single-Ply Sealant. Roll all seams, overlaps, and transitions using a 2" or 4" hand roller to ensure complete contact and adhesion.

Review Carlisle specifications and details for complete installation information.

Precautions

- » Keep box upright and do not double stack pallets.
- » Exercise caution when walking on wet membrane surfaces.
- » VapAir Seal TR Plus must be clean and dry prior to installation of subsequent roofing layers.
- » Store material above 50°F (10°C) prior to installation.
- » Only install in temperatures of 15°F (-9°C) and rising.
- » Avoid moving or stacking heavy loads on the installed membrane.
- » Refer to Safety Data Sheet before use.
- » Do not install over damp, contaminated, or frozen substrates.
- » VapAir Seal TR Plus may be used as a temporary roof for up to 180 days when installed in accordance with Carlisle's requirements.

Typical Properties and Characteristics

Physical Property	Units	Test Method	Result
Adhesion to Plywood @ 40°F	Lbs./in	ASTM D1970	≥9
Adhesion to Plywood @ 73°F	Lbs./in	ASTM D1970	≥3
Tensile Strength (MD)	Lbs.	ASTM D5034	≥130
Tensile Strength (CD)	Lbs.	ASTM D5034	≥105
Tear Strength (MD)	Lbs.	ASTM D1970	≥205
Tear Strength (CD)	Lbs.	ASTM D1970	≥200
Puncture Resistance	PSI	ASTM D751	≥250
UV Resistance	Months	ASTM G154	6
Water Resistance	Pass/Fail	ASTM D4869	Pass
Thermal Stability @ 280°F	Pass/Fail	ASTM D1970 modified	Pass
Nail Sealability	Pass/Fail	ASTM D1970	Pass
Air Permeance @ 75 Pa	L/s	ASTM E2178	0.0005
Release Liner Adhesion @ 20°C and 50°C	Lbs./in	ASTM D5147	<0.08
Cold Mandrel Bend	Pass/Fail	AC38 Section 3.3.4	Pass

Typical properties and characteristics are based on samples tested and are not guaranteed for all samples of this product. This data and information is intended as a guide and does not reflect the specification range for any particular property of this product.

Packaging

Product Code	373671
Roll Size	60" x 120'
Coverage Rate	570 ft² after seaming
Pallet Quantity	20 rolls
Truckload Quantity	21 pallets
Shelf Life	18 months

Green Building Information

Pre-Consumer Recycled Content	0%
Post-Consumer Recycled Content	0%
Solar Reflectance Index (SRI)	N/A
Global Warming Potential (GWP)	Currently Unavailable
Volatile Organic Compounds (VOC) Content	N/A
Manufacturing Locations	India Dubai, UAE
Corporate Sustainability Report (CSR) Availability	Yes
Environmental Product Declaration (EPD) Availability	No