ENGINEERED FLOORING INSTALLATION PRODUCTS

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EEL & STICK ROLLED MOISTURE BARRIER FOR CONCRETE FLOORS BEEL & TURE VAPOR SUPPRESSION TO 100% RH NOISTURE SUPPRESSION - Acoustic Properties - 10 Year Warranty - Crack Suppression - Acoustic Properties

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ANATOMY OF **TRAXXSHIELD**100[™]

Floorcovering

Subfloor Moisture

Proprietary Fabric Layer
 Rubberized Copolymer (adhesive on lower side)
 Polyethylene/Nylon Film (optionally removable)



A rolled moisture barrier that suppresses water vapor emission over concrete subfloors up to 100% Relative Humidity!!!

No need for expensive 2-part epoxy systems... or rolled moisture barriers that perform at lower suppression properties.

Why would you use a moisture vapor epoxy system that requires several days of bead-blasting, applying, and curing? Time, labor, and money need to be slashed in order to compete in the flooring industry. TraxxShield100^m does this by bringing you a peel-&-stick rolled underlayment that installs in hours, not days.



Why would you use a rolled moisture barrier that only suppresses 95% RH?

A concrete slab that measures a 95% RH today might become 98% RH after spring rains. Shouldn't you specify the best performing and most cost effective system to protect your finished floor installation, and more importantly protect your reputation?

When installing over new concrete slabs, wouldn't you want to specify a Moisture Barrier and Crack Suppression underlayment all in one? TraxxShield100[™] brings you these properties.

Do you want to specify a floated (loose-lay) installation when planning periodic floor removal? Just leave the poly/nylon release liner on TraxxShield100,TM and you are good to go!

How about installing a new floor directly over an existing floor covering? Absolutely. TraxxShield100[™] can be adhered or floated saving time and money for the flooring contractor.

TraxxShield100[™] is the choice for Architects, Contractors and Specifiers.

THE TRAXXSHIELD100[™] SPECIAL FORMULATION

TraxxShield100[™] has been designed and developed to solve the problem of moisture vapor emission damage from concrete slabs into the finished flooring at relative humidity levels up to 100%. Its special formulation of rubberized copolymers not only provides this moisture suppression quality, but the adhesion properties allow the contractor to adhere this underlayment to the concrete slab. The flooring contractor now has the confidence that he has installed a fully integrated flooring system.

The proprietary fabric design of the top layer is unique in both blocking moisture vapor emission from the slab upward and blocking plasticizer migration from the floorcovering downward. This top fabric layer also provides an excellent bonding surface for applying the floorcovering adhesives.









TraxxShield100[™] Features and Benefits

Suppresses Water Vapor Emission from Concrete up to 100% RH, and suppresses pH of 14.

Stops alkalinity, emulsifying of adhesive, mold/mildew, and most flooring damage from moisture.

Peel-&-Stick Installation Method

- Adheres to the concrete slab.
- Completely secured flooring system virtually eliminates the effects of "rolling loads".
- Quick and easy, as floor is installed in one day not several days as with 2-part epoxy systems.
- No curing time. No fumes. No dust. No VOCs.
- Zero telegraphing seams.

Loose-Lay Installation Method

- Perfect for planning future floor removal.
- Easily installed over existing hard surface floor coverings.

Saves Money, Labor and Time

- Cost of job is reduced by as much as 50% vs. 2-part epoxy systems.
- Finished floor coverings can be laid immediately after
- TraxxShield100™is installed.
- No downtime. Can eliminate days from the project schedule.
- Little waste and no clean up.

Anti-Fracture Properties

Great for ceramic tile as it provides strength and flexibility to bridge horizontal cracks up to 3/8" without transferring the stress load to the finished tile topping.

Acoustical Properties

Greater acoustical values than any other rolled moisture barrier! The Uniform Building Code mandates 50/50 minimum for sound absorption, and TraxxShield100[™] gives you 53 STC and 52 IIC.

Install a Wide Variety of Flooring Products Over TraxxShield100™

Install with confidence under Carpet Tile, Broadloom, VCT, LVT, LVP, SVT, Static Dissipative Tile, Ceramic Tile, Laminates, and over Radiant Flooring Systems. **Approved on most commercial-grade sheet vinyl** (see our website for the most current approval list).

Mold & Fungus Resistance

No growth of mold/fungus as tested per ASTM D3273.

TraxxShield100™ Does It All

One product gives you moisture vapor protection for most all conditions. No need carrying inventory of 80%, 95%, and 99% products as with other brands.

10-Year Warranty

Protects the flooring system integrity for years to come. TraxxShield100[™] does not degrade and will outlive the finished flooring.







<u>TYPICAL PERFORMANCE PROPERTIES – TraxxShield100™</u>

*Provides moisture vapor suppression on concrete floors up to 100% Relative Humidity (based on ASTM F-2170).

*This is a 2-ply rolled membrane of a polyester top-layer bonded to a rubberized copolymer adhesive bottom-layer.

ARCHITECTURAL SPECIFICATIONS:

Refer to the Smart Building Index - CMD Group for manufacturer specifications and spec data sheets.

Specify in Division 9 (Finishes), Section 09 61 00 (Flooring Treatment)

ROLL SIZE	3 FT. X 66.6 FT. (200 SQ. FT.)	
MINIMUM BASIC WEIGHT	27.1 LB. PER 100 SQ. FT.	
MINIMUM THICKNESS	42 MIL	
PERMEANCE PER ASTM E96	<0.05 perm (grain h ⁻¹ ft ⁻² in Hg ⁻¹)	
MAXIMUM PH ALLOWED	14	
MOLD & FUNGAL RESISTANCE PER ASTM D3273 — NO GROWTH		
VOC CONTENT	-0-%	
APPLICATION TEMPERATURE	65° TO 95° (F)	
FIRE TEST DATA		
- Flame Spread per ASTM E648	0.82 W/cm ² , Exceeds Class I	
- Smoke Density per ASTM E662	<450, Exceeds Standard	
STATIC LOAD LIMIT PER ASTM F970	Meets VCT/LVP Manuf. Specs	

IMPORTANT: Install only with TraxxShield[™] Seam Tape in order to support the moisture suppression system along the seams.
 TraxxShield[™] Seam Tape is 2-inches wide x 165-feet long.
 Store seam tape indoors in a dry area at 60° – 80° (F). Shelf life is 1 year.
 TraxxShield100[™] is patent-protected. For additional technical information, call 909-623-8032.

<u>TYPICAL PERFORMANCE PROPERTIES – TraxxShield100™ – Cont.</u>

		LUXURY VINYL TILE	
ASTM TEST	Туре	No Suspended Ceiling	With Suspended Ceiling
ASTM E 90-04	STC	53	66
ASTM E 492-09	IIC	52	70
ASTM E 2179-03	Delta IIC	21	
	U U		STC/ 50 IIC with No Suspended Ceiling. In the flooring system specification.

ACOUSTICAL PROPERTIES – SOUND REDUCTION RATINGS

ANTI-FRACTURE PROPERTIES IN CERAMIC TILE INSTALLATION

Cracks occurring in the concrete slab can cause cracks in the ceramic tile layer. This is referred to as "reflective cracking". These reflective cracks can be avoided by installing TraxxShield100TM in conjunction with fortified thin-set. TraxxShield100TM has the flexibility and strength to bridge horizontal cracks up to 3/8" without transferring stress load to the finished tile topping. TraxxShield100TM has been tested and achieved an 'Extra Heavy' rating in the Robinson Floor Test – ASTM C627. Approved for commercial installations.

Note: Robinson Floor Test (ASTM C627) conducted with 12 x 12 Porcelain Tile, TraxxShield100 Primer, TraxxShield100 Rolled Underlayment, Laticrete 254 Mortar, and Laticrete 1500 Grout over Concrete in 28-day Cure.

CRACK SUPPRESSION PROPERTIES IN NEW CONCRETE SLABS

As a newly poured concrete slab is curing, the tendency for cracking accelerates as each day passes. At the 28-day mark, the slab is ready to go. But, RH levels are still high at 97%–98%–99%. Further drying may aggravate and propagate additional cracking.

The Crack Suppression properties of the rubberized copolymer backing of TraxxShield100[™] can be utilized to control the expansion and contraction of shrinkage cracks during this time. After installing TraxxShield100[™], the slab will continue to slowly "gas off" at the perimeter, RH levels will equilibrate, and cracking will be minimized from the slab through the flooring system.

TraxxShield100[™] achieved a 'High Performance' rating per ANSI A118.12 Test Designation 5.4 System Crack Resistance Test.





INSTALLATIONS OVER CONCRETE FLOORS Installation Instructions

TraxxShield100[™] rolled moisture barrier is a superior underlayment for use over concrete floors where high Relative Humidity (RH) or high PH readings are present. It is designed to suppress the upward movement of water vapor and alkalinity from the concrete slab into the finished flooring, which can cause floorcovering damage, emulsification of the floorcovering adhesive, and mold/fungal conditions.

TraxxShield100[™] can be installed over on-grade and below-grade concrete slabs, as well as elevated precast slabs, slabs on metal decks, elevated structural concrete, lightweight concrete.

Note: TraxxShield100[™] is not designed or warranted for use in resisting liquid water pressure, a condition referred to as <u>Hydrostatic Pressure</u>. Therefore, do not use TraxxShield100[™] where standing water or glistening water is present on the slab.

I. Moisture Testing on the Concrete Slab is Not Required.

• Because TraxxShield100[™] can suppress 100.0% Relative Humidity and pH of 14, it is not required to test the moisture conditions of the concrete. If the general contractor requires this RH testing for documentation of the installation, then the tests must be conducted in accordance with the latest version of ASTM F2170, *Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs Using in situ Probes.*



Scan here to watch installation video @



II. Preparing the Concrete Slab

- It is required that the concrete slab is smooth and level so that imperfections do not telegraph through the finished flooring. Be sure to patch all cracks and joints which are 1/8" or greater. Use a high-quality patch/leveling compound which is warranted by the manufacturer for high moisture applications. All patching materials must be cured and surface-dry before installing TraxxShield100[™].
- 2. A water-based latex primer MUST be applied over the concrete slab with a 3-hour cure time in order to provide a bonding surface for the adhesive backing of TraxxShield100[™]. *TraxxShield*[™] *Primer* has been specifically formulated for this use, and is approved for both POROUS and NON-POROUS concrete. The primer should be applied using a 3/8[™] nap roller. Note: primer may feel dry to the touch shortly after application, so be sure to allow 3 hours to properly cure.



- 3. In cases where residual adhesive is present, the concrete surface must be scraped and the adhesive removed. *TraxxShield*™ *Primer* can be used over cutback adhesive residue after scraping, as two coats of primer are required over cutback. Do not use solvent-based adhesive remover chemicals, as they could contaminate the concrete surface.
- 4. In cases where an existing concrete slab is contaminated with oils or solvents, this condition may cause damage to TraxxShield100[™]. These oils and/or solvents must be removed before installation of TraxxShield100[™]. Please contact TRAXX Corporation if contaminants are suspected, or when chemical abatement of old flooring has been performed.
- 5. Upon completion of preparing the concrete slab surface, it should be dry, smooth, clean, and structurally sound within the finished flooring manufacturer's specifications.
- 6. In certain ceramic tile installations when you are dealing with major cracks in the concrete, TraxxShield100[™] can be used as an Anti-Fracture Membrane bridging horizontal cracks up to 3/8" in full floor thin-set applications.

III. Installing TraxxShield100 $^{\text{TM}}$ — Acclimation

- Acclimate the rolls of TraxxShield100[™] for 24 hours at the job location with the Room Temperature and Slab Temperature greater than 65°(F) in order to ensure good adhesive bonding of TraxxShield100[™] to the concrete slab. It is recommended to lay out several pre-cut pieces of TraxxShield100[™] to your desired lengths for 15 minutes to allow each piece to relax and acclimate to room temperature.
- Per the floorcovering manufacturers' instructions, finished floorcovering requires at least 2 days of acclimation in order to minimize expansion and contraction after installation. Do not install floorcovering until proper acclimation occurs.
- In planning your lay-down of TraxxShield100[™], keep in mind that rolls are 3 feet wide x 66.6 feet long (200 sq. ft. per roll).
- The black adhesive backing of TraxxShield100[™] has a gray Release Liner. This side should be FACING DOWN on the concrete slab.

(The next page illustrates a step-by-step peel & stick installation method for TraxxShield100™)



III. Installing TraxxShield100™ — Peel & Stick Method



STEP 1: After the primer has cured, attach TraxxShield[™] Seam Tape at 3-foot intervals across the slab. If installing Sheet Vinyl, use TraxxShield[™] Double-sided Tape. This is where the seams of the Traxxshield100[™] roll will lay.



STEP 2: Hand roll the seam tape to secure the bond to the slab.



STEP 3: Starting at one corner of the room, roll out TraxxShield100^m up to 1/8ⁿ from the wall and cut your ends using a utility knife. If working solo, you may find it easier to handle a piece no greater than 20 feet in length.



STEP 4: Attach this first roll of Traxxshield100^m to the slab. Pull the nylon liner from the roll and stick this roll to the concrete using a squeegee to eliminate any bubbles.

<u>NOTE A</u>: In some cases, you may need to doublecut your seam, like at cross-cuts. In either case of butt-seaming or double-cutting, the seam line should be perfect. It is the installer's responsibility to ensure that the seam or any other imperfection does not telegraph through the floorcovering. A Portland cement-based feather finish can be used on your seams if required. <u>NOTE B</u>: There should not be any air bubbles when installed in the squeegee method. However, if an air bubble is experienced, you may cut a line through the bubble. As the air is released, use a hand-roller to re-adhere TraxxShield100TM to the slab. The opposite sides of the cut on Traxxshield100TM will bond



STEP 5: As you begin your second roll, one installer hand-presses and lightly butts the seam line, as the other installer moves the piece forward. Be sure to stay over the seam tape. **Double-cut this seam when installing Sheet Vinyl to prevent seam-telegraphing.**



STEP 6: Closely follow this team with a squeegee to press the roll into place, and thereby eliminate any bubbles. Fully secure this roll with a 100-lb roller. When installing in hallways, it is easier to run short pieces from wall to wall.



STEP 7: The TraxxShield100[™] edges are highly-engineered, so the seam line can be lightly net fit (butted) without any gaps. Use a hand roller on the seam line to secure the bond.



STEP 8: Proceed to roll out each row of TraxxShield100^m to complete the room. Secure the bond with a 100-lb. roller in both directions.

back together. And, if you should experience a splice tape or other imperfection on any roll, just cut that section out

<u>NOTE C</u>: See our website bulletin *TraxxShield100™ Loose-Lay Installation Methods* when floating.

IV. Installing the Finished Flooring

- 1. Follow the finished flooring manufacturer's acclimation and installation instructions.
- It is highly recommended to use premium commercial-grade adhesives (acrylic pressure-sensitive, 2-part epoxy, 2-part polyurethane).
 CAUTION: Clear Thin Spreads have a higher risk of emulsifying when soaked with water and chemicals during cleaning over non-porous substrates.
- 3. TraxxShield100[™] is a **NON-POROUS** underlayment. Apply the floorcovering adhesive directly onto the TraxxShield100[™] surface according to the adhesive manufacturer's trowel recommendations for **NON-POROUS** surfaces.
- 4. Always use a new trowel.
- 5. IT IS STRONGLY RECOMMENDED TO DO A 3-FT. SQUARE TEST USING THE ADHESIVE APPLIED TO TRAXXSHIELD100™ TO TEST THE ADHESIVE COVERAGE AND BONDING OF THE FLOORCOVERING.
- 6. Note when installing sheet vinyl: <u>It is required to skim-coat the top surface of</u> <u>TraxxShield100[™]</u> with a Portland cement-based, latex finishing underlayment (like Ardex Feather Finish[®], UZIN NC 888, or Mapei Planiprep[™] SC) in order to enhance the surface appearance of the sheet vinyl.
- 7. Spray adhesives are only approved over TraxxShield100[™] that is treated with the Feather Finish[®]-type skim coat.
- 8. When applying rolled adhesive, use a heavier nap roller (3/8" 1/2" nap).
- 9. For those adhesives requiring a wet-set application, always follow the adhesive manufacturer's Instructions for NON-POROUS substrates for correct open times to flash off.
- 10. Do not use solvent-based adhesives.
- 11. Do not tear or damage the TraxxShield100[™] during the finished flooring installation.
- 12. Ensure that the seams of TraxxShield100[™] are offset from the seams of VCT, LVT, or SVT tiles. Vinyl planks should be installed at 90 degrees to the TraxxShield100[™] seam pattern.

Approved Floor Coverings for use with TraxxShield100™ Moisture Barrier

Carpet Tile Vinyl Composition Tile (VCT) Luxury Vinyl Tile (LVT) Luxury Vinyl Planks (LVP) Solid Vinyl Tile (SVT) Static Dissipative/Conductive Tile Broadloom Carpet Engineered Wood (Nail-Down or Floating Only) Solid Wood (Nail-Down Only) Laminates Ceramic Tile/Porcelain/Natural Stone Sheet Vinyl (approved on job-by-job basis)

TraxxShield100[™] has been approved for use with the large variety of floorcoverings stated above to suppress moisture vapor in concrete slabs. It is the responsibility of the contractor or architect to ensure that the specified floorcovering is dimensionally stable. If you have a floorcovering not on this list, please contact TRAXX Corporation.

V. Initial Maintenance & Cleaning of the Finished Floor

Upon completion of finished flooring installation, TRAXX Corporation requires a minimum of 5 days (120 hours) before any cleaning or maintenance. Failure to do so may result in improper drying and curing of the floorcovering adhesive. Longer curing times may be required by the adhesive manufacturer. TRAXX Corporation is not responsible for improper installation of the finished floor, nor cleaning/maintenance performed before curing of the floorcovering adhesive.





LIMITED WARRANTY

TRAXX Corporation warrants that TraxxShield100[™] Rolled Moisture Barrier for Concrete Floors is free from manufacturing defects that would adversely affect its performance for the warranty period specified below.

When properly installed to the written TraxxShield100[™] Installation Instructions, and under normal conditions of use as a moisture suppression membrane, TraxxShield100[™] will protect finished flooring products from moisture vapor emissions from the concrete subfloor. TraxxShield100[™] will suppress moisture vapor up to a maximum of 100.0% Relative Humidity in accordance to the latest version of ASTM F2170.

Owner of Warranty

You are covered by this warranty if you are the original property owner of a building where TraxxShield100[™] is installed for use as a moisture suppression membrane, or the first subsequent owner if this warranty was properly transferred. This warranty does not apply to the installation company. The installation must be in the United States or Canada.

The Limited Warranty may be transferred once to a second owner of the building. The second owner must notify TRAXX Corporation in writing at 1201 E. Lexington Ave., Pomona, CA 91766 within 60 days after the property transfer.

Duration of TraxxShield100™ Warranty

The Limited Warranty starts on the date of the completed TraxxShield100[™] installation and lasts for 10 years, or until building ownership changes without proper warranty transfer, whichever comes first.

The useful life of your TraxxShield100[™] installation is affected by many factors including: the conditions to which it is exposed, the quality of its installation, the type and quality of building construction and concrete subfloor, and other factors which TRAXX Corporation has no control. As an example, TraxxShield100[™] is not warranted where evidence of Hydrostatic Pressure is found. This Limited Warranty does not assure that the finished flooring installed over TraxxShield100[™] will last the entire length of this 10-year period.

Sole and Exclusive Remedy

If your TraxxShield100[™] Rolled Moisture Barrier has a manufacturing defect covered by this limited warranty, TRAXX Corporation will:

During the first year after installation, (1) pay the original cost of defective TraxxShield100^m and the reasonable original cost of affected flooring materials, and the reasonable cost of labor to install those flooring materials, or (2) pay the reasonable cost of repair for the defective TraxxShield100^m and affected floor area within the sole discretion of TRAXX Corporation.

For the next nine years, if TRAXX Corporation elects to reimburse you for the amount set forth in option (1) of the preceding paragraph, the amount to be paid to you will be adjusted to reflect the use you have received from your TraxxShield100[™] based on the number of months that have elapsed since time of installation.

Limitations and Exclusions

TRAXX Corporation shall not be liable for any damages to the TraxxShield100[™] product, overlying flooring products or any other property from any cause other than a manufacturing defect. In particular, this Limited Warranty does not cover damage to the TraxxShield100[™] product, or any parts thereof caused by:

- 1. Moisture issues related to hydrostatic pressure, standing or glistening water, flooding, or spills of liquids on the TraxxShield100[™] or overlying flooring product, or other conditions that cause moisture to be above the TraxxShield100[™]. This applies to initial cleaning of finished flooring before tile adhesive has fully cured, and applies to flooding of water in future maintenance washing.
- 2. Floorcovering that has a propensity to cup, curl, expand, or contract.
- 3. Misuse, or improper storage, or handling of the TraxxShield100[™] product at any time, including excessive exposure to impact, heat, or moisture prior to installation, exposure of the TraxxShield100[™] product to or application of harsh chemicals, or punctures or tears resulting from shipping, handling, or installation.
- 4. Fire, or other casualties or acts of God that cause substantial shifting of the subfloor or substrate, or any distortion, cracking, or movement of the subfloor, or other structural defects of the building or other premises.
- 5. Installation of the subflooring or TraxxShield100[™] product not in strict accordance with TRAXX Corporation's written installation instructions; defects or failure of installation materials such as patching material, subflooring, adhesives, or other products that affect the performance of the flooring system; telegraphing of seams, slab imperfections or adhesive trowel marks; or failure to allow the flooring system to cure properly, or to allow completion of flooring work and related construction.
- 6. Damage to floorcovering caused by high/spiked heels or improper protectors/casters/furniture rests. Warranty responsibility rests with either the floorcovering manufacturer or protector/caster manufacturer.

How To File A Warranty Claim

To file a claim, you must send a written notice of damage together with receipt of purchase to establish that you are the original owner (or proof of transfer as second owner), proof of installation date, and a copy of the original moisture test records to TRAXX Corporation, 1201 E. Lexington Ave., Pomona, CA 91766.

TRAXX Corporation will evaluate your claim, inspect the installation of TraxxShield100[™] and the claimed damage, and resolve your claim in accordance with this warranty. TRAXX Corporation reserves the right to conduct new moisture testing at the time of the claim to determine current RH readings, which will be used to determine warranty compliance.

Any claim for TraxxShield100[™] which has been replaced prior to TRAXX Corporation's receipt of written notice and on-site inspection will be denied.

Sole and Exclusive Warranty

This warranty is exclusive and replaces all other warranties, conditions, representations, and guarantees, whether express or implied, whether by statute, or law in equity, including the implied warranties of merchantability and fitness for a particular purpose. This written warranty is your exclusive warranty from TRAXX Corporation and represents the sole remedy available to any owner of TraxxShield100[™] Rolled Moisture Barrier. TRAXX Corporation makes no other representations, conditions, guarantee, or warranty of any kind other than that stated herein.

TRAXX Corporation will not be liable in any event for consequential, punitive, special, incidental, or other similar damages of any kind, including damage to the interior or exterior of any building, whether for breach of this warranty, negligence, strict liability in tort, or for any other cause.

This Limited Warranty may not be changed or modified except in writing signed by an officer of TRAXX Corporation. No one (other than an officer of TRAXX Corporation) has authority to assume any additional liability or responsibility for TRAXX Corporation in connection with your TraxxShield100[™] Rolled Moisture Barrier except as described in this warranty.

This warranty is subject to change. For current information, visit <u>www.traxxcorp.com</u>.

September, 2016



ADDITIONAL PRODUCTS TO BE USED WITH YOUR Traxshield 100[™] FLOORING SYSTEM

TraxxShield™ PRIMER

- Always prime the concrete
- For POROUS and NON-POROUS CONCRETE SURFACES



One Gallon Part No. TSU-40200-P4



Five Gallon Part No. TSU-40200-P5

TraxxShield™ SEAM TAPES

- For added MVER protection at the seam line
- · Zero Telegraphing when installed beneath the seam



Standard Seam Tape for Peel-&-Stick Method Part No. TSU-40200-T



Double-Sided Seam Tape for Loose-Lay Method Part No. TSU-40200-DST

Refer to the bulletins on <u>www.traxxcorp.com/products/TraxxShield100</u> for information on TraxxShield™ Primer and TraxxShield100[™] Loose-Lay seam tape options.



TRAXX Corporation | 1201 E. Lexington Avenue | Pomona, CA 91766 888-872-9926 (TRAXXCORP) | www.traxxcorp.com

