

# ZEPHYR®

95% MOISTURE VAPOR BARRIER, OR  
ENCAPSULATOR, OR PRIMER COATING

SIGNATURE LINE®

## TECHNICAL DATA SHEET

January 2023  
Version 3.1

RESIDENTIAL

MULTI-FAMILY

LIGHT COMMERCIAL

HEAVY COMMERCIAL

**OPTIONAL - WHEN USED AS PART OF A GLUE-DOWN FLOORING SYSTEM:**

STEP 1 - APPLY TAYLOR ZEPHYR® AND ALLOW IT TO FULLY CURE  
STEP 2 - APPLY TAYLOR ADHESIVE AND INSTALL FLOORING

### DESCRIPTION

Zephyr is a simple way to protect what's on top. Engineered to fight moisture, Zephyr can also be used as a primer, or even an encapsulator, eliminating the need to remove existing or cutback adhesive residue. This one-part, roller-applied coating requires no stirring or mixing and is uniquely adaptable to varying moisture levels.

### APPROVED SUBSTRATES & SURFACES

- APA underlayment grade plywood and OSB
- Association grade particleboard
- Cement backer board
- Cementitious and anhydrite screeds
- Concrete and radiant heated subfloors that do not exceed 85°F (30°C)
- Gypsum and lightweight concrete
- Well-bonded residue from cutback adhesives
- Well-bonded residue from multipurpose, latex, and pressure sensitive adhesives

### SUBSTRATE TESTING

#### ONE COAT

- RH** - 93% [ASTM F2170]
- pH** - No Testing Required: 5 - 14
- MVER** - 10 lbs [ASTM F1869]
- POROSITY** - CSP 1+, must pass [ASTM F3191]

#### TWO COATS

- RH** - 95% [ASTM F2170]
- pH** - No Testing Required: 5 - 14
- MVER** - 15 lbs [ASTM F1869]
- POROSITY** - CSP 1+, must pass [ASTM F3191]

### SUBSTRATE & SURFACE PREPARATION

1. Concrete floors must be dry, clean, smooth and structurally sound. They shall be free of any foreign materials that might prevent proper absorption, including dust, dirt, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, incompatible sealers, fire-retardant chemicals, fungicides, release agents, alkaline salts, excessive carbonation, laitance, mold, mildew, and curing, sealing, hardening or parting compounds, or unapproved admixtures.
  - Fill all surface cracks, grooves, depressions, control joints and non-moving joints with moisture resistant patching and self-leveling compounds, allow to fully cure and correct high spots before application.
  - When installing over radiant heated subfloors, turn the heat off for 24 hours before, during and after installation. Failure to turn the heat off may result in shortened working time of the adhesive. When turning radiant heat back on, raise it incrementally, not to exceed a change of more than 5 degrees per hour to a maximum of 85°F (29°C).
2. The substrate or surface and Zephyr (and TAYLOR adhesive and flooring if applicable) must be acclimated in an enclosed building with the HVAC operational between 60-95°F (15.5-32°C), and between 30-65% relative humidity, for at least 72 hours before, during and after the installation.
  - When used as a moisture vapor barrier (see 1, 2) **PLUS:** substrate must be porous per ASTM F3191 and prepared per ASTM F710 standards including:
    - Fill surface cracks, grooves, depressions, control joints and non-moving joints with moisture-resistant patching/self-leveling compounds and allow to fully cure. Correct high spots prior to application.
  - When used as an encapsulator over existing, well-bonded acrylic latex, cutback adhesives, or cutback adhesive residue (see 1, 2) **PLUS:** existing, well-bonded (acrylic latex, cutback adhesives, or cutback adhesive residue) knock down adhesive ridges and high spots to a smooth, thin film and remove any loose material prior to application.
  - When used as a primer coating (see 1, 2).

MOISTURE  
CONTROL



### TAYLOR TECHNICAL SERVICES

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**TAYLOR**  
WITH YOU EVERY STEP™

### PRECAUTIONARY NOTES:

- Concrete must be placed in strict accordance with applicable standards and specifications. An intact moisture vapor retarder must be present below the concrete (see ASTM E1745), must be fully cured (at least 45 days), porous (see ASTM F3191), without hydrostatic pressure, without pressurized liquid from any source, and free of surface alkaline salt crystallization.
- Concrete must be a minimum of 2500 psi and without visible water.

### APPLICATION INSTRUCTIONS

Follow flooring manufacturer's guidelines for layout, design and any special precautions for installation.


1. Spread product using required tool (when used as a moisture vapor barrier, product can be used as a 1- or 2-coat system).
  - When used as a 2-coat system, allow the first coat to fully cure before applying the second coat (always apply the second coat perpendicular to the first coat).
  - Cure time -1-2 hours per coat under acceptable temperature and humidity conditions.

### PRECAUTIONARY NOTES:

- Zephyr cannot be used as both a moisture barrier and encapsulator simultaneously.
- Allow Zephyr to FULLY CURE before applying any product over top (for loose lay and floating floors, ensure there is no residual tack prior to installation).
- When used as a moisture barrier, substrate must be free of contaminants (ASTM F710) and porous (ASTM F3191)
- Reseal lid when not in use to protect product.

### REQUIRED TOOLS AND COVERAGE

\*Trowel dimensions are width X depth X spacing. Coverage is approximate and may vary depending on porosity of substrate and the angle at which the trowel is held.

FLOORING TYPES	TOOL* (IMAGES NOT TO SCALE)		ESTIMATED COVERAGE
<b>MOISTURE BARRIER</b>			
For use under all glue-down, loose-lay, and floating floors	3/8" Short Nap Paint Roller		350 ft <sup>2</sup> /gal (1 coat) 200 ft <sup>2</sup> /gal (2 coat)

\*It is the sole responsibility of the contractor/installer to determine the proper porosity of the subfloor, apply the correct amount of adhesive for the job conditions and ensure that all instructions, procedures and practices are strictly adhered to.

### CLEANING INSTRUCTIONS

**While product is still wet:** Use a damp cloth and water to remove.

**While product is still soft:** Use a remover/stripper, denatured alcohol or mineral spirits. Always check compatibility on a piece of scrap flooring.

### STORAGE

This product should be stored at temperatures between 50-90°F (15-32°C). PROTECT FROM FREEZING.

### CAUTION

DO NOT take internally. If swallowed, DO NOT induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

### WARRANTY INFORMATION

For warranty information, call Technical Services at **706-712-5823**, visit us on the web at **www.tayloradhesives.com** or e-mail us at **tech@tayloradhesives.com**. Flooring manufacturer's and TAYLOR's written pre-installation and installation instructions must be strictly followed or the TAYLOR warranty will be void.

ZEPHYR PRODUCT INFORMATION		
PRODUCT CHARACTERISTICS	Product Classification	95% Moisture Vapor Barrier, Or Encapsulator, Or Primer Coating
	Base Chemistry	Synthetic latex blend
	Curing Method	Evaporation
	Appearance/Color	Milky-white (wet), clear/translucent (dry)
	Odor	Extremely low
	Consistency	Light, low viscosity liquid
	Application	Easy rolling
	Flammability	Non-flammable
	Freeze/Thaw	Protect from freezing
	Shelf Life [Unopened Container at 70°F]	2 years
TESTING	Moisture Control	Protects flooring from 93% (1 coat) or 95% (2 coats) substrate moisture vapor
	RH [ASTM F2170]	93% (1 coat) 95% (2 coats)
	pH	No testing required (5-14)
	MVER [ASTM F1869]	10 lbs (1 coat) 15 lbs (2 coats)
	Porosity [ASTM F3191]	Must pass (CSP 1+)
TIME	Open Time	N/A
	Flash Time	N/A
	Working Time	N/A
	Cure Time	1 hr (per coat)
	Pot Life	N/A
TRAFFIC	Light Traffic	N/A
	Heavy Traffic	N/A
	Heavy Rolling Loads	N/A
ACOUSTICS*	STC	N/A
	IIC	N/A
	Delta IIC	N/A
SUSTAINABILITY	Solvents	No
	Isocyanates	No
	VOC Wet Applied [g/L] [SCAQMD Rule #1168]	0 g/L
	Bio-Based Content	No
	Post-Consumer Recycled Content	No
	Mineral Abundant Content	No
	LEED v4/4.1 Points	Contributes to low emitting materials
	Certifications	FloorScore®, Green Label Plus®, GREENGUARD®
Transparency	mindful MATERIALS Library, USGBC Member	
WARRANTY**	Duration (non CFI Certified)	10-Year Performance Warranty
	Duration (CFI Certified)	Lifetime Performance Warranty
	Coverage	93-95% Substrate Moisture Vapor <b>OR</b> Bond

\*IIC (delta) and STC (delta) ranges are flooring assembly specific based on third party testing and verification in a controlled environment. For any questions or further information, please contact TAYLOR Technical at 706-712-5823.

\*\*For warranty information, view Product Warranty Certificate.