

Zephyr

Moisture Vapor Barrier for Concrete Subfloors

DESCRIPTION

Zephyr is a unique one-part, multi-functional moisture barrier that dries to a clear film that is alkali and water-resistant. It is designed for use on interior porous concrete substrates as a penetrating and film-forming hydrophobic (water repelling) barrier to protect flooring installations against moisture vapor transmission rates of up to 15 lbs. per 1000 sq. ft. per 24 hours and in-situ Relative Humidity (RH) moisture readings of up to 95%. The multi-functionality of the product results from the barrier coating's ability to prime porous concrete and eliminate dust, and to neutralize surface alkalinity by forming a barrier coating that provides an acceptable pH level and blocks migration of alkaline salts through the slab.

Installation Note: Adhesives applied over non-porous substrates require extended drying time. With the application of Zephyr, concrete subfloors are rendered non-porous and should be treated as such.

APPROVED SUBSTRATES

Zephyr is recommended and warranted for 'on' and 'above' grades of concrete floors. Zephyr is not guaranteed or recommended for use where hydrostatic pressure exists, and must not be used on below-grade subfloors. Use Zephyr in conjunction with an appropriate Taylor flooring adhesive for permanent protection from moisture related adhesive bond failures.

SUBSTRATE PREPARATION

Prior to application of Zephyr, a moisture vapor transmission (MVT) test must be performed to determine the MVT of the concrete, using an anhydrous calcium chloride or in-situ RH test method, the initial MVT level must be below 15 lbs./1000 sq. ft./24 hours or 95% in-situ Relative Humidity (RH) for a two-coat application. For a single coat application, the initial MVT must be below 10 lbs. /1000 sq. ft./24 hours or 93% in-situ Relative Humidity (RH). The concrete substrate must be at least 45 days old and 2,500 PSI or greater. The slab must be porous so the sealer can penetrate the surface and create a moisture barrier within the concrete. If the slab does not pass the porosity test, then abrade to a CSP 1-3 to ensure the porosity of the concrete. The floor must be free of all foreign substances, including old adhesives, floor sealers, curing compounds, wall plaster, cleaning compounds, wax, oil, dirt, or any other substance that would interfere with or block the absorption of the sealer into the concrete surface. For best results, Zephyr should be applied directly to porous concrete but may be applied over moisture resistant cementitious patch. Follow the patch manufacturer's recommendations for proper use of their products.

The area of application must be in an enclosed building with operational HVAC system. Acclimate the sealer and area of application at a temperature of 65-95° F (18-43° C), and at a relative humidity of 30%-60% for 72 hours before, during, and after installation.

All cracks in the concrete must be completely filled and sealed using a polymer fortified cementitious patching and leveling compound. Zephyr will not prevent water from coming up through cracks in the concrete substrate. Follow the manufacturer's directions for waterproofing crack sealers and cementitious patching and leveling compounds.

INSTRUCTIONS

After the concrete has been properly prepared, begin the application of the sealer. To ensure proper coverage over the entire floor, divide the floor into 250 sq. ft. sections per coat and apply one gallon of Zephyr per section. Pour the sealer into a paint tray and spread with a 3/8" [10 mm] short nap paint roller. Distribute the sealer evenly on the concrete putting slight pressure on the roller. Rolling and cross-rolling several times may be necessary to achieve a thin uniform film over the concrete.

Zephyr must be allowed to dry completely to a hard coating. Allow a minimum of 1 hour for complete cure between coats. Jobsites conditions may vary and may extend drying time of the sealer. Do not over-apply sealer. Do not allow sealer to puddle. Immediately roll and cross-roll any puddles to spread any excess sealer. Concrete floors can vary in porosity. Applying too much sealer will interfere with its curing, creating soft spots that will require longer cure times. These soft spots should be scraped off with a flat trowel and allowed to cure to a hard. Areas that absorb the sealer very quickly are more porous, resulting in dull, non-shiny appearance.

NOTE: Due to the many additives being used in or on concrete slabs it is critical that the bond test be performed. Some treatments will repel any sealer or adhesive. Once cured, any pinholes or bubbles in the product film must be filled with Zephyr prior to flooring installation.

CLEANUP

Taylor Touchdown #9 Adhesive Remover/Stripper.

RECOMMENDED TOOLS

Trowel Size* and Notch	Coverage
3/8" [10mm] Short Nap Roller	Up to 250 ft ² per gallon

*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.

****IT IS THE INSTALLER'S RESPONSIBILITY TO APPLY THE PROPER AMOUNT OF ADHESIVE FOR THE JOB CONDITION.**

OTHER PROPERTIES:

Appearance: Off-white semitransparent coat when dry.

Cure Time: Approximately 1-2 hours

Shelf life: One year in unopened container at 70° F [21°C].

Other features: Waterproof when cured, non-flammable. Freeze/thaw stable to 10°F [-12°C].

STORAGE

Containers must be kept tightly closed when not in use. This product should be stored at temperatures between 50° and 90° F [15°- 32° C]. Storage conditions outside this range may cause product viscosity to increase.

CAUTION

DO NOT take internally. If swallowed, DO NOT induce vomiting.

Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

WARRANTY INFORMATION

This product is manufactured according to exacting quality control standards and is warranted to be free from manufacturing defects. Defective material called to our attention within one year of manufacture will be replaced. No guarantee, expressed or implied, is made regarding the performance of this product since the manner and conditions of application are beyond our control. For complete warranty information, call Technical Services at 800-868-4583 ext 2221, visit us on the web at www.wftaylor.com or e-mail us at tech@wftaylor.com.