

HOW DO WE TRANSFORM SPACE WITH HIGH MOISTURE?

PLAN YOUR FLOOR FOR PERFORMANCE.

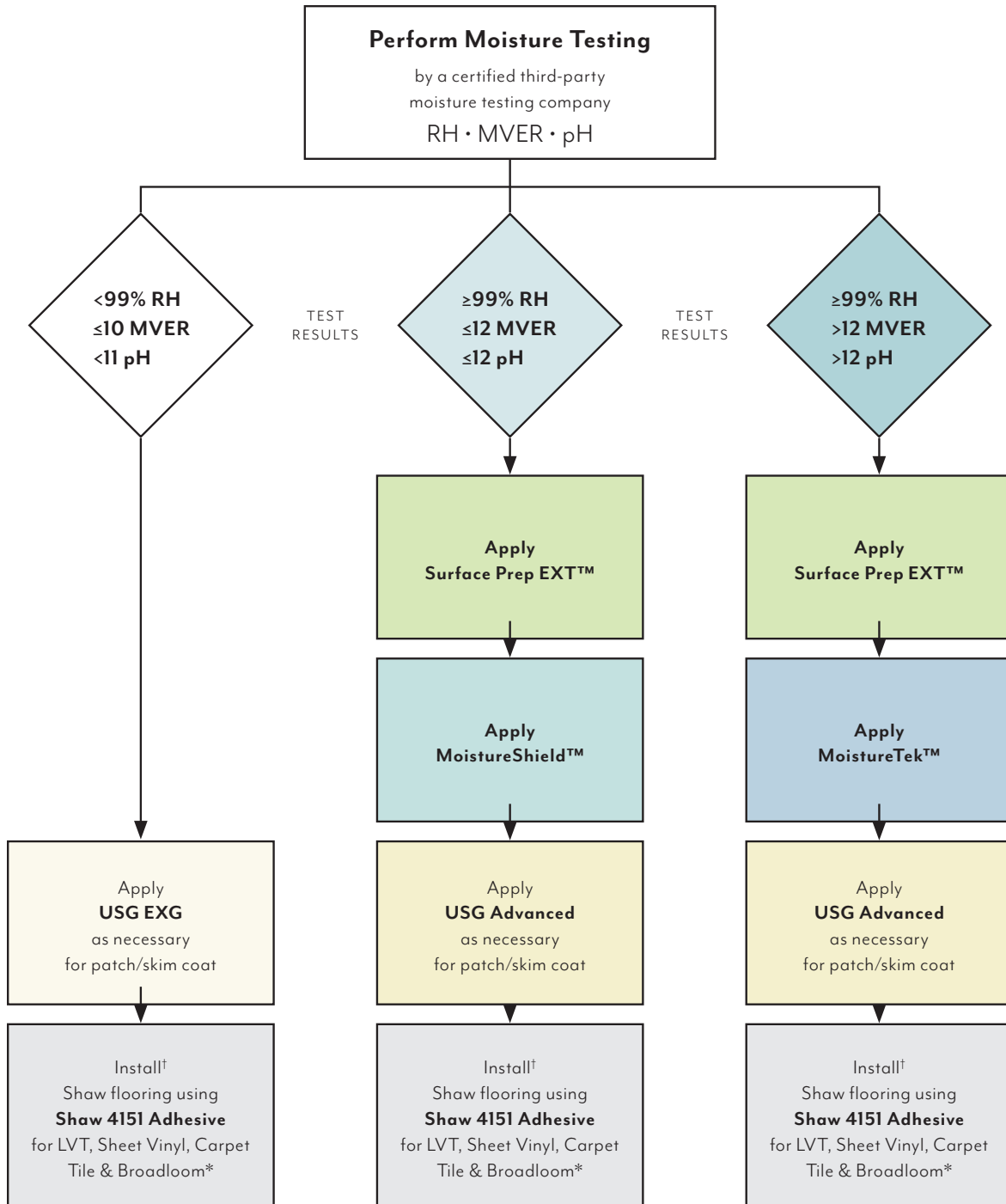
When concrete is poured, it takes weeks—even months—to fully dry. During its drying process, moisture is released from the concrete. With tight construction deadlines, this process is often not given the time it needs, and flooring is installed on top of concrete that is still dissipating moisture. Additionally, if the vapor barrier beneath the concrete is missing or compromised, ground moisture can travel through the concrete to the surface.

Understanding moisture concerns of a subfloor early on can save ample time and resources. From adhesives to padded backings, and moisture mitigation, **Patcraft offers a variety of solutions to prevent, survive or solve moisture.**

THE MOISTURE DECISION TREE

The most important thing you need to know about your subfloor is the moisture level. We recommend that you always test so you know the correct products to use. Identify the moisture level and this decision tree quickly guides you to the solution.

Want a **Shaw 10-year Moisture System Warranty** for your project? Secure testing from an entity certified by a third party in moisture testing, use the recommended products and use a recommended installer. Your account manager will advise you and deliver your warranty.



RH - Relative Humidity

MVER - Moisture Vapor Emission Rate, measured by the Calcium Chloride Test

† Must use a Shaw approved/trained contractor.

* Not for stretch-in patterned broadloom.

If you need to “open” your older concrete to accept sealer, **Surface Prep EXT™** is a game-changer. It eliminates bead blasting, saving time and money. It is biodegradable and cleans up with water.

MOISTURE MANAGEMENT SOLUTIONS

1 – PREVENT

Moisture that evaporates through concrete and becomes trapped beneath a flooring product can cause the adhesive to emulsify and release, cupping, seams separating, wheel ruts in LVT, discoloration in the floor, or mold and mildew below the flooring. All of this can lead to an installation being completely removed and addressed, costing time and money.

Confirming that concrete is dry and acceptable for flooring installation can be confirmed through a **calcium chloride test** (ASTM F1869), **relative humidity test** (ASTM F2170), and **pH test**. The calcium chloride test provides the rate of vapor that escapes the slab, while the RH test measures the quantity of moisture within the slab. pH testing measures alkaline salts brought to the surface by moisture. All adhesives require one or more of these tests to ensure there is not an excess of moisture that will break down the adhesive over time.

Understanding the moisture story of a slab and having the proper testing completed determines the best route for handling moisture preventing installation failures.

2 – SURVIVE

Survive high moisture through the use of breathable carpet backings or moisture tolerant adhesives.

- EcoLogix® is our breathable carpet tile which is comprised of a fiber matrix with pathways for vapor to move and escape through the seams so it does not become entrapped.
- 4151 is our high moisture universal adhesive; tolerates moisture up to 99% RH and can be used with any flooring except for patterned broadloom.
- LokDots is ideal for installing EcoWorx carpet tile in high moisture environments. The moisture will still be present, however, LokDots will adhere.

3 – SOLVE

Solve the problem by using an applied moisture barrier on top of concrete before flooring is installed. With applied moisture barriers you can begin installing floor covering within a matter of hours. Refer to our moisture decision tree to determine which of our solutions works best for your high moisture environment.



DECONSTRUCTED FELT WITH ECOLOGIX BREATHABLE CUSHION BACKING



LOKDOTS DRY ADHESIVE DOTS



MOISTURETEK™ APPLIED MOISTURE BARRIER

SELECT YOUR PRODUCTS

Surface Prep EXT™



CONCRETE PREPARATION

A breakthrough in technology, Surface Prep EXT provides an alternative to bead blasting and caustic chemicals, giving you a clean concrete surface profile (CSP) of 2 to 3 with no odor and a dwell time of 2 hours. It eliminates high pH. Simply spray on and agitate. After 2 hours, remove with water and vacuum.

MoistureShield™



STRONG BARRIER

MoistureShield creates a waterproof membrane 2-4 mm below the surface of the concrete. It withstands up to 12 MVER and 12 pH. MoistureShield applies with a sprayer and dries in 2 hours.

MoistureTek™



STRONGEST BARRIER

For the most serious challenges, MoistureTek is a 2-part epoxy that withstands up to 100% RH and 14 pH. MoistureTek can be applied 24 hours after a concrete pour and cures in 5 hours. Use Surface Prep EXT to prepare the floor.

USG EXG & Advanced



PATCH & SKIM COAT

With a high-moisture situation, always use the moisture-tolerant patch. USG EXG (exterior grade) tolerates 100% RH and up to 14 pH, ideal for repairing interior concrete floors with high relative humidity. If you have already solved your moisture problem with a moisture barrier, use USG Advanced.

4151 Adhesive



HIGH MOISTURE ADHESIVE

Shaw 4151 is the most versatile adhesive on the market. This one pail will handle your resilient products and most of your carpet products, from wet set to pressure sensitive, saving storage space and simplifying your install. In addition, you can reseal Shaw 4151 up to 3 times, reducing waste.



FRONT COVER: URBAN RELIEF | EDGELAND WITH ECOLOGIX BREATHABLE BACKING