



SITE-RELATED SOLUTIONS (SRS)

RENOVATION

Milliken

Q ■ Simple question: Can you please tell me what
■ Site-Related Solutions actually *means*?

A ■ Yes. Here's a simple answer: Every flooring project is attached to a site.
■ Every site is different. Site-Related Solutions are about finding a way
■ to deal with whatever combination of site conditions a customer might
encounter. Some are pretty standard, and some aren't. Either way,
Milliken can provide you with a solution for just about anything.

Why waste time and money on floor prep if you don't have to?

Time wasted is money wasted.
Milliken modular carpet significantly reduces (or eliminates) both.

Is chemical reactivity something to be concerned about?

PVC HARDBACK: YES

A nasty chemical reaction between PVC-backed carpet tiles and old adhesives can occur — if it does, your adhesives may dissolve into an oozing mess.

MILLIKEN: NO

Milliken cushion-backing is chemically inert — there is no risk of a reaction between the carpet and adhesive still on the floor from a previous install.

Will surface irregularities on the subfloor show through?

HARDBACK: IT'S VERY POSSIBLE

In the case of carpet tile with thermoplastic backing, rough surface textures from existing adhesives could be visible on the surface of your carpet after installation.

MILLIKEN: NO

Milliken modular carpet easily installs over existing adhesives and the thickness of our cushion backing will result in virtually no telegraphing.

Getting the floor ready could turn out to be quite a bit more expensive and complicated than you think.

Every renovation schedule includes the time it takes to physically install the new carpet onto the floor. That's obvious. But, hardback products might require *even more*. Like time for grinding, or for the mechanical removal of existing adhesives. With Milliken, you won't need to do *any of that*. Delays are minimized, time is saved.

With Milliken, just remove your old carpet. That's about it — we try to keep it simple.

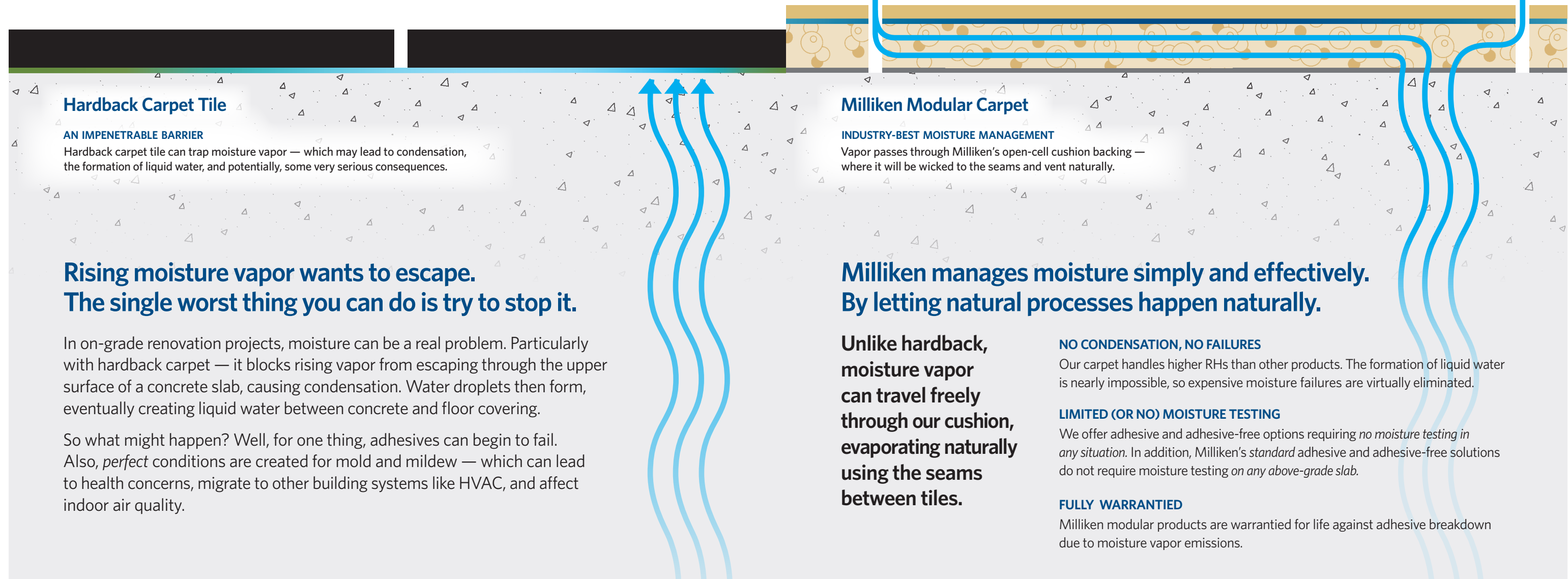
Remove the existing carpet. Knock down the high ridges of the existing adhesive. Start installing your new carpet right away.

Plus, Milliken offers solutions for special circumstances, such as **chemically abated floors**. Turn to the last page for additional information.

Zero

is the number of moisture claims we've seen over the last 20+ years.

Cushion backing makes it all possible. Milliken moisture-management technology virtually *eliminates* worst-case water-damage scenarios.



Hardback Carpet Tile

AN IMPENETRABLE BARRIER

Hardback carpet tile can trap moisture vapor — which may lead to condensation, the formation of liquid water, and potentially, some very serious consequences.

Rising moisture vapor wants to escape. The single worst thing you can do is try to stop it.

In on-grade renovation projects, moisture can be a real problem. Particularly with hardback carpet — it blocks rising vapor from escaping through the upper surface of a concrete slab, causing condensation. Water droplets then form, eventually creating liquid water between concrete and floor covering.

So what might happen? Well, for one thing, adhesives can begin to fail. Also, *perfect* conditions are created for mold and mildew — which can lead to health concerns, migrate to other building systems like HVAC, and affect indoor air quality.

Milliken Modular Carpet

INDUSTRY-BEST MOISTURE MANAGEMENT

Vapor passes through Milliken's open-cell cushion backing — where it will be wicked to the seams and vent naturally.

Milliken manages moisture simply and effectively. By letting natural processes happen naturally.

Unlike hardback, moisture vapor can travel freely through our cushion, evaporating naturally using the seams between tiles.

NO CONDENSATION, NO FAILURES

Our carpet handles higher RHs than other products. The formation of liquid water is nearly impossible, so expensive moisture failures are virtually eliminated.

LIMITED (OR NO) MOISTURE TESTING









We offer adhesive and adhesive-free options requiring *no moisture testing in any situation*. In addition, Milliken's *standard* adhesive and adhesive-free solutions do not require moisture testing *on any above-grade slab*.

FULLY WARRANTIED

Milliken modular products are warrantied for life against adhesive breakdown due to moisture vapor emissions.

SRS Product Finder

This product finder will guide you through a few fast questions about your project. Start on the left, and work your way across to determine the SRS system that best meets your needs.

On-Grade or Above-Grade?	Moisture Levels / RH	
	← LOWER	HIGHER →
	CONCRETE RH	85% 95%
 <p>On-Grade¹</p>	 <p>Non-Reactive Standard Works for any on-grade renovation scenario where concrete RH is 95% or below.</p>	 <p>Moisture Extreme NO RH limit NO testing <small>On-grade use does not require a vapor barrier or moisture testing</small></p>
	 <p>TractionBack[®] Works for any on-grade renovation scenario where an adhesive-free solution is desired and concrete RH is 85% or below.</p>	 <p>TractionBack[®] Plus NO RH limit NO testing <small>On-grade use does not require a vapor barrier or moisture testing</small></p>
 <p>Above-Grade</p>	 <p>Non-Reactive Standard Works for ALL above-grade renovation scenarios. NO moisture testing is required. There are NO RH or pH limits.</p>	<p>ADHESIVE</p>
	 <p>TractionBack[®] Works for ALL above-grade renovation scenarios where an adhesive-free solution is desired. NO moisture testing is required. There are NO RH or pH limits.</p>	<p>ADHESIVE-FREE</p>

¹ For below-grade scenarios, on-grade recommendations generally apply. However, please contact the Milliken Technical Services team (1-800-528-8453, option 2) to discuss your specific site parameters. For more detailed information and specifications, please refer to the current versions of Milliken's installation instructions and warranties, available at millikenfloors.com.

MILLIKEN BARRIER COATING — formulated for

Chemically Abated Floors

Solvents employed to remove old asbestos-based adhesives (also old cutback and old adhesives in general) penetrate into concrete, where they remain. Over time, they can undermine and weaken adhesives, potentially ruining your installation.

Use Milliken's Barrier Coating, and because of our warranties you take on zero risk. Apply two coats of Barrier Coating (each dries in an hour) and install your new flooring with TractionBack® Plus. There's no grinding, no epoxy. It's that simple.

AS SIMPLE AS ONE-TWO-THREE:

- 1** Milliken cushion backing is made with materials inherently less susceptible to the adverse effects of solvents used for abatement.
- 2** Two applications of Barrier Coating is all that's required to reduce the prospect of a chemical reaction with adhesives essentially to zero.
- 3** Install using TractionBack® Plus, our adhesive-free, high-friction coating with connectors that bind individual carpet tile squares together to form a cohesive, stable surface.

Milliken makes it quick, easy, and warrantied. The risk is on us.

FAQs / SITE-RELATED SOLUTIONS / RENOVATION

1 I thought products with a thermoplastic backing were non-reactive.

That's true, but — *aside from trapping moisture, which is bad — thermoplastic-backed products tend to be thin.* That means two things: 1) An aggressive adhesive is generally required to keep them down flat over the life of the product, and 2) "Telegraphing" can be a real problem: Undulations or residue left on the floor might show through, because of the relative thinness of carpet tiles that use thermoplastic backing. You might need costly, time-consuming floor prep to achieve a clean, smooth surface. Milliken's standard cushion-backing is thick enough to mitigate the issue. You can leave most of the residue on the floor during renovation projects. Little or no floor prep saves time and money.

2 Why is moisture a concern with renovation projects?

When installing new carpet (specifically on grade), there are a few moisture-related issues to look out for. Is there an existing vapor barrier? If you aren't sure, and you're not prepared, moisture issues might ultimately creep in. Also, you never know what you're going to get when lifting up the old carpet. Is there liquid water? The old carpet might have been excellent at handling moisture — what about the new carpet? Does the new product and adhesive combination have built-in moisture mitigation technology? Moving from a solvent-based to water-based adhesives can also cause big problems. Once you lift up the old carpet, there's typically a list of concerns around moisture — and not addressing them could spell big trouble down the road.

■ **THERE ARE VERY FEW CONDITIONS** — For Milliken installation solutions, we ask that a few conditions be met:

- There is no visible water.
- To use Milliken Non-Reactive Standard Adhesive or TractionBack® in an on-grade installation, an ASTM E-1745 vapor retarder (Class B minimum) must be in place in accordance with ACI 302-2001 and directly in contact with the concrete placement, or RH must be under 95%. For TractionBack®, RH must be under 85%.
- Floor prep must be performed in accordance with ASTM F 710-11, except where explicitly allowed by this document and/or installation instructions.
- Bond test required.

■ **HYDROSTATIC PRESSURE** — We should note that Milliken does not warrant against hydrostatic pressure, instances where water is forcibly pushed into the slab and/or moisture events caused by broken pipes. In such cases the warranty will be voided. If you'd call that fine print, we won't argue — but we think you'll agree that's a pretty fair stipulation.



Customer Concierge 800.824.2246 | millikenfloors.com

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