

## COMMUNITIES OF EXCELLENCE ARE BUILT ON SOLID FOUNDATIONS



K. Hovnanian<sup>®</sup> Homes, a national homebuilding company, has been providing lasting value to families and building communities of excellence since 1959. Rich Ackman, VP Purchasing, knows the key to growing a successful company with an authentic commitment to customer satisfaction means using the best-quality products, from the ground up.



# SOLVING THE SHRINKAGE PROBLEM

In new homes, shrinkage cracks in poured concrete inevitably occur as the foundation settles. With its history of award-winning standards of homebuilding quality, K. Hovnanian Homes determined that filling shrinkage cracks with epoxy, a standard industry solution, is an unacceptable fix. It's costly, ineffective, and would cause undue dissatisfaction to their valued customers.

DELTA®-MS wall waterproofing by Dörken Systems keeps basements dry and comfortable even when the concrete foundation wall cracks. It's impermeable to water, effectively keeping ground moisture away from foundation walls. And the exclusive design uses a vacuum-formed dimple pattern to create an air gap between the membrane and the foundation, allowing any incidental water getting past the dimpled membrane to flow freely to the perimeter footing drain. Supported by an extensive certified-installer program offering industry-leading warranties and support, DELTA®-MS provides K. Hovnanian Homes with the confidence of knowing the top-quality materials are properly applied. Its customers also enjoy peace of mind knowing their homes are properly protected.

## PROTECTING REPUTATIONS AND BASEMENTS

Keeping foundations dry is the key to avoiding costly repairs, and damage to your reputation as a builder. Most foundation problems are related to unwanted moisture. Basements that are built to simply meet code requirements can still end up damp and moist. For the basement to be a useable living space, the best moisture protection is necessary. For a product to exceed code requirements, it has to reliably control moisture by keeping water away from the foundation wall.

The air gap that DELTA®-MS creates between the membrane and the foundation allows water to drain and stops moisture from entering building spaces, while maximizing occupant comfort.

*"We're proud to have DELTA®-MS keep the foundations and basements of K. Hovnanian Homes dry. We have been installing the DELTA®-MS product since June of 2010 with tremendous success."*

*– Rich Ackman, VP Purchasing, K. Hovnanian Homes.*





## STRESS CRACK RESISTANCE THAT'S STRESS FREE

Protecting foundations from water and moisture is essential in any home. DELTA®-MS with exclusive Air-gap Technology uses virgin high-density polyethylene (HDPE), a tough, non-toxic material on the outside layers, making it **the most durable dimple sheet on the market**. The specific co-extrusion makeup paired with the offset dimples leads to higher stress crack resistance. This ensures the original compressive strength of the membrane is maintained for the lifetime of the product, which keeps basements comfortable and moisture free.

"This is the type of material K. Hovnanian Homes looks for—lasting quality and value," Rich explains. "Our relationships with industry professionals allow us to purchase quality materials in quantity, and we've established an impeccable reputation as one of the nation's most respected homebuilders."

## ZERO CALL-BACKS MEAN HAPPY CUSTOMERS

"In my experience, if something doesn't bring value to the home—if it doesn't stop water from getting in—then you shouldn't spend money on it. While it may cost a little more up front for a dimple membrane (compared to other waterproofing materials), you save on labor, as it's quick and easy to install, and we see long-term benefits on the warranty side. We've had minimum service calls and minor leak-related call-backs, and of the calls we do get, they're more so moisture-related questions and happy customers who know their basement won't have any water issues."

— Rich Ackman, VP Purchasing,  
K. Hovnanian Homes.

Air-gap Technology dimple membranes are the best way to protect home quality and ensure longevity by keeping water and moisture away from the foundation in the first place. The membrane reliably bridges foundation cracks and deflects soil moisture, meaning no water intrusion. This provides optimal comfort and healthy living spaces for homeowners, and fewer warranty claims or call-backs stemming from musty-smelling basements. From design to installation, DELTA®-MS makes it easy and cost effective to perfectly protect building foundations.





# KEEPS BASEMENTS DRY

When choosing the right material for the essential task of protecting homes, Rich's priority was simple and clear: keep basements dry. The product simply had to be impermeable to water and water vapor, and allow any free-flowing water to fall to the footing drain. DELTA®-MS foundation protection systems works for K. Hovnanian Homes on several levels:

## FROM A PRODUCT PERSPECTIVE

DELTA®-MS satisfied all the requirements Rich needed to exceed the municipal ordinance specifications:

- Meets all building code requirements in the USA and Canada
- Two lines of defense against water intrusion: dimpled membrane provides capillary break; air-gap allows incidental water to freely drain by gravity
- Reliably bridges foundation cracks and deflects soil moisture, unlike asphaltic sprays
- Continues to function even if foundation settles or cracks
- Resists damage from backfill, like rocks and debris

## FROM A QUALITY PERSPECTIVE

As an ideal, practical solution for on-site builders performing the installation, DELTA®-MS offers the following:

- No unpleasant chemical odors or harmful VOCs, which allows workers to stay on schedule
- Installation in all types of weather, and no time is wasted waiting for concrete to cure, or on sprays to dry in order to backfill
- Available in a range of sizes for easy installation on various foundation heights, suitable to all K. Hovnanian Homes models

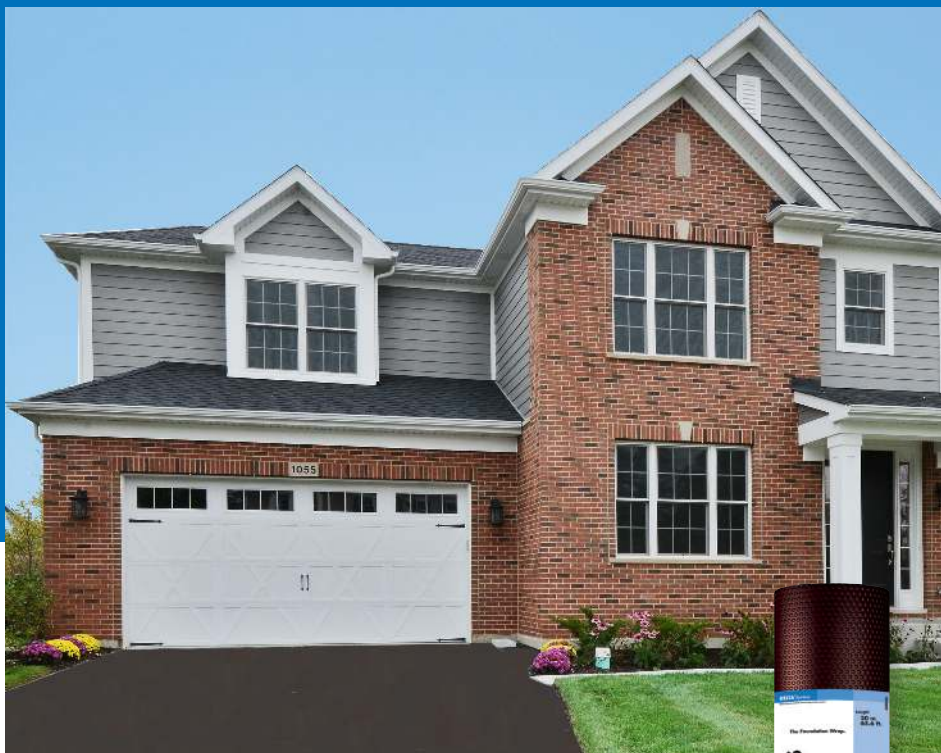
*As Rich says, "At K. Hovnanian Homes, we make a promise to our customers to pursue excellence in everything we do to meet their expectations."*

**KHovnanian**  
Homes



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To learn more about air and moisture barriers including DELTA®-MS, contact your nearest Dörken sales representative at [dorken.com](http://dorken.com)

