LAMININ™

PAVER INFUSION TECHNOLOGY

WHAT IS LAMININ™?

LAMININ™ Paver Infusion Technology is a revolutionary new manufacturing technology that infuses Hanover® pavers from the inside out. LAMININ™ lays the foundation to actively influence the adhesion of concrete molecules and increases the performance of Hanover's already proven concrete pavers. Concrete molecules are bonded together to strengthen and maintain the highest quality concrete pavers in the industry.

For years, acid rain, ultraviolet light and efflorescence have been a detriment to the appearance and longevity of concrete unit pavers. Developed by Hanover® Architectural Products, LAMININ™ will protect against acid rain and ultraviolet light to keep Hanover® Pavers looking vibrant and new for years to come. With an extremely low water absorption rate, efflorescence is substantially reduced.

Hanover® concrete pavers with LAMININ™ Paver Infusion Technology will provide:

- Substantial reduction of efflorescence
- Low water absorption
- Protection from acid rain
- Resistance to UV damage
- Bright, vibrant color
- Low maintenance
- Long lasting installation
- Improved stain resistance

WHAT LAMININ™ DOES

LAMININ™ Paver Infusion Technology will dramatically add protection, life and lasting value to Hanover's concrete paver product line. Hanover® Pavers are manufactured as a single homogenous mix with average compressive strengths exceeding ASTM C936. The high performance of LAMININ™ Paver Infusion Technology will defend against natural elements such as:

- Acid rain
- Alkalis
- Efflorescence
- Ultraviolet Light
- Oil and Food Stains

LAMININ™ is NOT a top surface treatment. Common top surface treatment processes do not address ultraviolet light, efflorescence or acid rain. Hanover® LAMININ™ Paver Infusion Technology is a revolutionary new manufacturing technology that infuses Hanover® Pavers from the inside out.

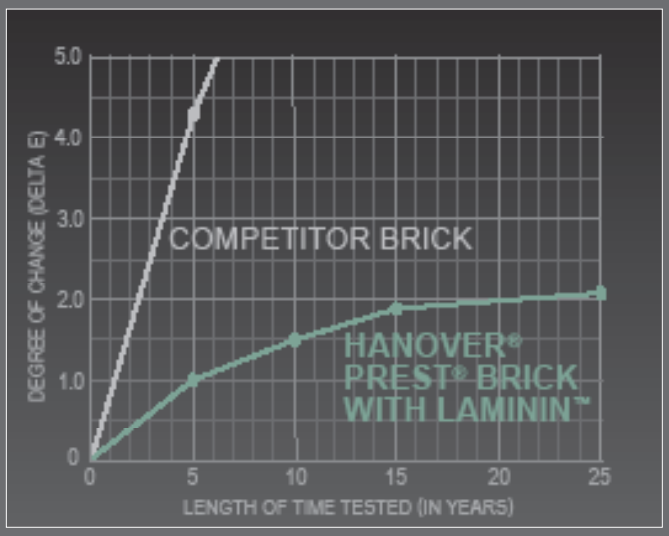
Hanover® Pavers with LAMININ™ have been independently tested. For more information about Hanover's LAMININ™ Paver Infusion Technology, visit www.hanoverpavers.com or contact a Hanover® Sales Representative.

EFFLORESCENCE RESISTANCE

Efflorescence has long been a common problem associated with concrete pavers. Hanover® Pavers were tested in accordance with procedures outlined in ASTM C67. Paver samples were placed in water for seven days and showed no signs of efflorescence. The results were astounding. Hanover's **LAMININ™** Paver Infusion Technology substantially reduces efflorescence.

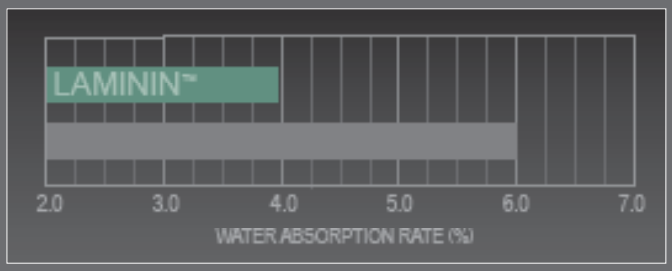
UV RESISTANCE

Hanover® Prest® Brick produced with **LAMININ™** Paver Infusion Technology provide superior resistance to UV damage. Bricks were subjected to intense ultraviolet light for 2000 hours, the equivalent of 15-20 years. Hanover's Prest® Brick with **LAMININ™** showed very little change, as illustrated on the chart below. Test Results have been generated form independent lab tests. See ASTM D 4587-05 for testing procedures.



Hanover® Prest® Bricks are resistant to UV damage.

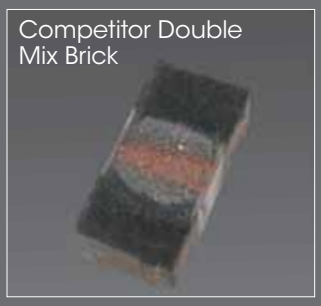
WATER ABSORPTION



Prest® Brick with LAMININ™

Average Competitor Brick

ACID RESISTANCE



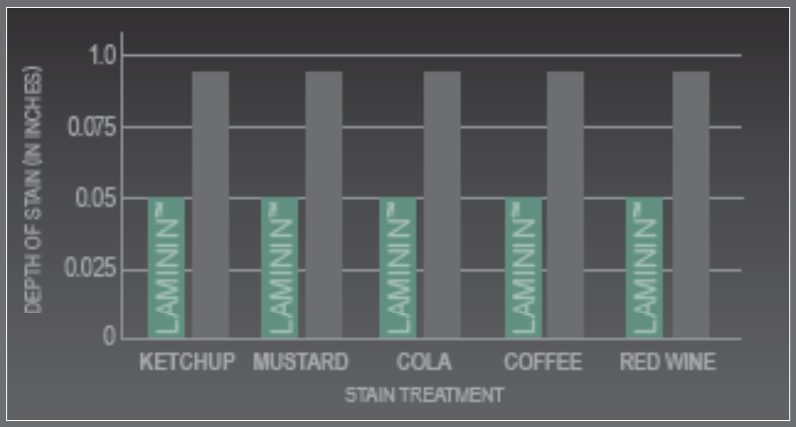
*equal amounts of muriatic acid were used

Hanover's **LAMININ™** Paver Infusion Technology defends against natural elements such as acid rain. The bricks shown were subjected to 2 ml of non-diluted muriatic acid for 2 minutes, the equivalent of 15-20 years of acid rain damage. Hanover's Prest® Brick with **LAMININ™** showed little or no visible damage.

Other manufacturers provide paver protection with a top surface filled with tiny stones simply to produce a smooth finish. This process does not defend against acid rain damage. As shown in the photo of the competitor's brick with top treatment, considerable visible damage occurred during the acid test.

STAIN RESISTANCE

LAMININ™ Paver Infusion Technology provides a higher level of stain resistance. In independent lab tests, stains penetrated almost two times deeper on pavers without **LAMININ™**. Results are illustrated to the right. Hanover® Pavers with **LAMININ™** will resist stains, making paver installations remain clean and vibrant.



Prest® Brick with LAMININ™

Brick without LAMININ™