

A Vapor Barrier System That Delivers on Safety And the Bottomline

Mono Shield®
Reinforced Metalized
Contaminant Vapor Barrier





Quick and simple
installation



Excellent
constructability



Chemically
resistant



Competitively
priced



Introducing MonoShield

MonoShield is a chemically resistant and easy-to-apply barrier specifically designed as a preemptive solution for vapor intrusion at brownfield redevelopment sites. It is backed by unparalleled design support, robust warranty options, and a network of certified applicators who can ensure quality installation.

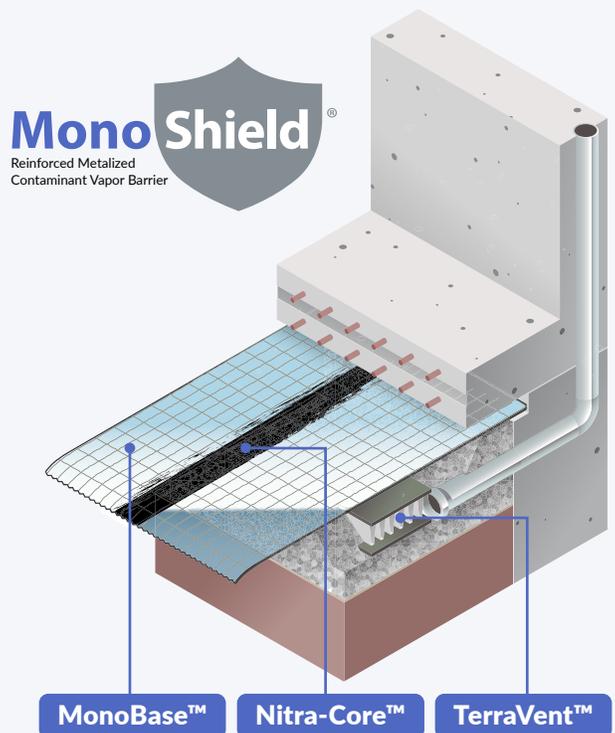


The Fastest Vapor Barrier to Install
is Also One of the Safest

A Cost-Effective Vapor Barrier with Superior Constructability

Prior to MonoShield, solutions for vapor intrusion mitigation at large warehouses or retail developments, where regulatory requirements are not a driving factor, were easily-punctured thin-mil plastic sheets or polymer-modified asphalt barriers that have limited resistance to volatile organic compounds. These solutions offered either chemical resistance or constructability, but not both.

Composed of an innovative metalized film seamed with a spray-applied nitrile-modified asphalt, MonoShield sets the standard as a robust barrier that effectively limits the diffusion of chemical vapors. The spray-applied seal is also far more effective and easier to apply than tape-based or heat-welded systems. MonoShield provides developers with a viable long-term solution for reducing liability and protecting human health at a competitive price.





MonoShield Saves Time & Money

As with any construction project, but especially with regards to a voluntary preemptive action, cost is often a critical factor; MonoShield was designed with this in mind. One of the most significant advantages is reduced installation time.

30-40% Faster Installation

Compared to alternative plastic sheeting or HDPE system installation times.

MonoShield can be installed 30-40% faster than alternate plastic sheeting or polymer-modified asphalt systems. This saves money by reducing contractor costs and shortening the development timeline. MonoShield offers superior durability and chemical resistance. Seams are spray-applied by certified applicators and quality tested to ensure the highest level of performance. MonoShield can improve indoor air quality, protect building occupants from chemical vapor exposure, and significantly reduce future liability, leading to immeasurable long-term cost savings.

Nitrile-Modified Asphalt Seams vs. Taped Seams



Example of Nitrile-Modified Asphalt Seams

MonoShield applications utilize a spray-applied nitrile-modified asphalt to seal seams and penetrations, eliminating bottlenecks in performance and installation time.



Example of Taped Seams

Traditional vapor barrier installations require taped seams which contributes to long construction times and uncertainty in performance.



Nitra-Core is a nitrile-modified asphalt that is spray applied at MonoBase seams, around penetrations, and at perimeter terminations to a thickness of 60 mils. Nitra-Core effectively seals the barrier and allows for the barrier system to be smoke tested for quality assurance of the installation.



MonoBase is a patented 30-mil composite membrane comprised of flexible chemically resistant metalized film laminated to a geotextile, a copolymer polyethylene and a tear resistant polyester reinforced grid structure. It is designed to act as a stand-alone vapor barrier in combination with Nitra-Core sealing around seams, penetrations and terminations.



TerraVent is a low-profile trenchless, flexible, sub-slab vapor collection system used in lieu of perforated piping. It consists of a heavy duty 3D, high flow, polypropylene dimpled core which is then wrapped and bonded with a non-woven geotextile to prevent penetration; and made from 100% post-industrial/pre-consumer polypropylene regrind material.



Are You Planning a Vapor Intrusion Mitigation Project? Contact us today for a free estimate.

1011 Calle Sombra, San Clemente, CA 92673

Phone: (949) 481-8118

landsciencetech.com



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