



Pre-Applied Waterproofing Solutions

A Risk-Based Portfolio of Pre-Applied Waterproofing Systems

Pre-Applied Waterproofing Solutions that meet your risk tolerance

One size does not fit all for pre-applied waterproofing jobs. What tips the scale for one solution over another? Risk tolerance.

Prior to selecting a pre-applied waterproofing system, design professionals should determine the property owner's risk tolerance. The primary factors that influence risk tolerance include building use and geotechnical conditions. Henry offers pre-applied waterproofing solutions that address high, medium and low profiles.



MiraWELD™

MiraWELD is an adhesively bonded pre-applied waterproofing solution with welded seams that is typically used for high-risk projects like hospitals, museums, and computer centers. It is best used for below-grade applications on foundation walls and under slab where the groundwater is a concern and removing and replacing sensitive interior finishes and equipment would be costly if water intrusion were to occur.

Features and benefits

- The only self-adhering, pre-applied waterproofing membrane and weldable system on the market
US Patent No. 10710344
- Easy to install using weldable prefabricated detailing accessories
- Adhesively seals to the structure, resisting water intrusion and lateral water migration
- Superior puncture resistance compared to self-adhered pre-applied membranes by others
- Chemically resistant to common groundwater and soil contaminants, and resistant to radon and methane
- Unaffected by inclement weather and wet-dry cycling
- Does not require confinement/constant pressure to perform



MiraPLY with SeamLOCK™ Technology

is a self-adhering waterproofing system which fuses the time-tested waterproofing qualities of TPO and the self-sealing properties of butyl alloy adhesive. The fully adhered MiraPLY system features a 45-mil thick, reinforced TPO sheet laminated to a 25-mil butyl adhesive coating. Factory installed SeamLOCK pre-primed, peel-and-go-strips eliminate the need for primer saving time without compromising the membrane's exceptional adhesion.

With millions square feet sold, MiraPLY has earned a solid reputation among construction professionals for being a reliable, durable, and easy-to-install membrane. Available in both vertical and horizontal grades. MiraPLY is recommended for use in challenging applications, such as blindside installations, critical positive-side applications, below-grade structural slabs, under slabs and footings, and below elevator pits.

Features and benefits

- Adhesively seals to the structure, resisting water intrusion and lateral water migration
- Superior puncture resistance compared to self-adhered pre-applied membranes by others
- Chemically resistant to common groundwater and soil contaminants, and resistant to radon and methane
- SeamLOCK Technology utilizing dual self-adhesive selvages provides superior seams
- Unaffected by inclement weather and wet-dry cycling
- Does not require confinement/constant pressure to perform



Blueskin PreSeal™

Blueskin PreSeal membrane is a pre-applied, fully and permanently bonded sheet membrane system for waterproof construction. The unique dual bond of the membrane improves adhesion, reduces or eliminates lateral water migration as well as migration through the membrane, and reduces the sequencing delays associated with chemically bonded systems.

Installed prior to rebar installation and concrete placement, the membrane also features wide rolls resulting in fewer seams, reducing the risk of water ingress. On the jobsite, the system's lightweight rolls are easy to transport, cut and position, making installation fast and easy.

In partnership with  **MAX FRANK**

Features and benefits

- Proprietary dual bond technology provides full mechanical and active, adhesive bond to the concrete
- Dual bond helps accelerate scheduling by reducing sequencing delays tied to concrete cure time and form removal
- Easily installs with self-adhering laps and splices – no special tools or torches required
- Highly resistant to harmful substances in soil and groundwater, as well as superior resistance to water vapor and radon gas
- Better cold weather performance than HDPE systems for excellent low temperature flexibility and crack bridging
- Living Building Challenge Declare “Red List Free” status supports sustainable building properties



MiraCLAY™

MiraCLAY is a bentonite clay pre-applied waterproofing solution that is typically used for low-risk projects. Bentonite became popular in the mid-1960s as a below-grade waterproofing membrane. It is a widely used, cost-effective solution that is suitable for projects where the groundwater is less of a concern.

MiraCLAY can be used based on site requirements and is available in three formulas including Standard, EF and GM.

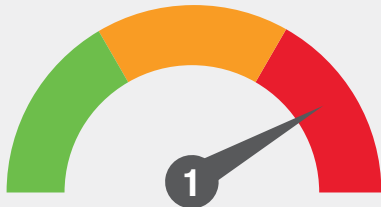
Features and benefits

- For use in pre-applied below-grade applications for foundation walls and underslab
- May also be used in post-applied below-grade applications for foundation walls
- Swells or hydrates in the presence of water creating a gasket seal

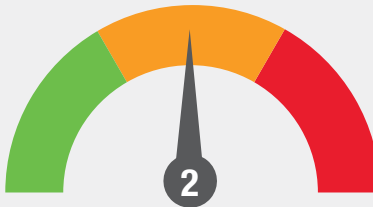


Know Your Risk

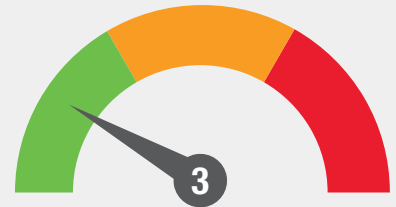
The level of risk tolerance that a property owner is comfortable with should be the basis for selecting a pre-applied waterproofing system.



HIGH-RISK



MODERATE-RISK



LOW-RISK

Pre-Applied Waterproofing Selection Chart

Product Selection	MiraWELD	MiraPLY	Blueskin PreSeal 435	Blueskin PreSeal 320	MiraCLAY
Ease of Installation	✓	✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓
Toughness/Durability	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓ ✓
Seam Strength	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓
Bond to Concrete	✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓ ✓	✓ ✓ ✓ ✓	✓
Chemical Resistance	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓
Radon & Methane Resistance	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	✓ ✓	
Shotcrete Applications	✓ ✓ ✓ ✓	✓ ✓ ✓	✓ ✓ ✓	✓ ✓	

Waterproofing System Accessories

Waterstops

Small waterstops play a big role in ensuring the integrity of the building envelope since even a slight defect can result in catastrophic leaks. Henry offers a full line of waterstop products for cold joints, construction joints, penetrations, wet cracks, and water cut-off applications.

- **MiraSTOP BW**

A bentonite waterstop that swells when in contact with water.

- **MiraSTOP NBW**

A non-bentonite waterstop that swells when in contact with water.

- **MiraSTOP SS**

A sealant that swells when in contact with water.

- **MiraSTOP IW**

A conduit for MiraSTOP chemical grouts to seal cold joints, construction joints, and penetrations.

- **MiraSTOP CG-F**

A flexible chemical grout when combined with MiraSTOP CG-F CAT and water.

- **MiraSTOP CG-HS**

A high-strength chemical grout when combined with MiraSTOP CG-HS CAT and water.

- **MiraSTOP PF**

A high-performing pump flush used to flush, clean, and prime polyurethane injection pumps.



MiraDRAIN™ Aggregate Free Drainage System

Drainage plays a critical role in the design and construction of below-grade applications. Without proper drainage, groundwater seepage may cause hydrostatic pressure, and leakage, resulting in structural damage. Effective drainage is essential. However, the costly and time-consuming installation of a conventional aggregate drainage system often compels builders and designers to compromise on drainage. This compromise can result in maintenance costs that far outweigh those associated with installing an effective drainage system. In 1983, MiraDRAIN ended the stone age for drainage systems when it introduced the MiraDRAIN System. The pre-fabricated drainage composite panels combine a high-impact polystyrene core laminated to a filter fabric. The unique design allows MiraDRAIN products to handle from three to five times more water than traditional aggregate or sand systems.

Features and benefits

- No-clogging filter fabrics
- Relieves hydrostatic pressure buildup against below-grade structures
- High-compressive strength core, withstands installation and natural earth stresses
- Enhances waterproofing system by channeling water away
- Provides a protection course for the waterproofing system
- Consistent and proven long-term performance
- Lightweight product allows for cost-efficient installation
- Allows backfilling with the excavated soil



Total protection is our mission

Henry Building Envelope Systems

With combined experience spanning over 100 years, Henry and Carlisle products have helped manage the flow of water, air, vapor, and energy through the building envelope. From foundation to roof, our solutions improve the energy efficiency, livability and sustainability of commercial and residential structures, for the benefit of the owner, occupant and the environment.

Most importantly, our experience has confirmed that the building envelope needs to be viewed as a holistic system – from roof to wall to foundation – offering a solid line of defense from the elements. Today, our Building Envelope Systems include an entire portfolio of interrelated solutions to help you meet the challenges you face.

When it comes to making sure you get the **waterproofing systems** and **Building Envelope Systems** solutions and expertise you need, turn to a partner you can trust – **turn to Henry, a Carlisle Company.**



Waterproofing Systems

Designing a durable waterproofing system starts with the foundation waterproofing system and extends to critical transition areas such as plaza decks. Once the building is complete, the opportunity to integrate an optimized waterproofing system into the building envelope is lost. In addition to pre-applied systems, Henry offers other waterproofing solutions that keep the structure dry and protect it from damage due to water infiltration.

Air Barrier Systems

Designing air barrier systems for today's structures has never been more challenging. A designer has to balance air leakage, water resistance, vapor management, thermal controls and fire resistance, all while keeping an eye on the budget. Henry Building Envelope Systems include an entire portfolio of air barrier solutions to help you meet your goals.

Roofing Systems

From providing durable, watertight performance, to managing storm water run-off and offering outdoor green spaces, Henry roofing systems are designed to meet the challenges of these evolving trends. Inverted roof membrane assemblies, including vegetative roof assemblies and solutions for plaza decks, along with conventional roofing solutions for low-slope and flat roof applications help provide years of reliable service to building owners and occupants.

All Henry Building Envelope Systems are backed by comprehensive warranties.

CLARK
CONSTRUCTION

Henry®

Building Envelope Systems®

Roofing | Air Barrier | Waterproofing

Ask us today about other Henry® solutions that help manage the flow of water, air, vapor and energy.

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