



# Bentonite Waterproofing Offers Eco-Friendly Advantages

In commercial building and architecture, choosing environmentally friendly materials is essential. As professionals committed to sustainable practices, the materials you select significantly reduce your projects' environmental impact and help them qualify for LEED certification and ESG compliance. When considering various waterproofing options, such as asphalt and plastic membranes, bentonite is the most environmentally advantageous choice.

## The Natural Choice

Sodium bentonite, a highly absorbent type of clay, naturally expands to form an impermeable barrier when it meets water. First used in the mid-20th century to seal ponds and wells, this remarkable clay excels in waterproofing and is one of the most eco-friendly materials available. Known for its "green" qualities long before sustainability became a global trend, bentonite's ability to form a natural hydraulic barrier is well established.

## Best for low-risk projects

There's no one-size-fits-all approach to waterproofing. Risk tolerance tilts the balance in favor of one solution over another. Key factors influencing risk tolerance are the building's intended use and its geotechnical conditions.

Bentonite products – like Henry MiraCLAY™ – have been used since the 1960s a variety of projects where groundwater is not a concern. It is widely used in pre-applied below-grade applications, foundation walls and underslab applications. It may also be used in post-applied below-grade foundation wall applications.

Designed for both high performance and minimal environmental impact, MiraCLAY offers significant improvements over traditional bentonite cardboard panels. It combines the latest in geotextile technology with the proven waterproofing capabilities of sodium bentonite. A MiraCLAY geotextile panel consists of sodium bentonite clay encased between two layers of woven and non-woven,

puncture-resistant polypropylene fabric. A process called Infrabond™ thermally fuses the needle-punched fibers to the polypropylene fabric. This locks the sodium bentonite into place regardless of incline or hydration cycles, ensuring a permanently bonded membrane.

MiraCLAY is engineered to meet the rigorous standards of modern construction requirements. Bentonite can be enhanced to make it more chemically resistant. We complete testing to make sure it is suitable for applications as the bentonite can be impacted. Its self-sealing properties enhance puncture resistance, ensuring durability while remaining cost-effective and easy to install. Additionally, MiraCLAY's non-toxic composition and absence of harmful emissions make it well-suited for projects targeting high LEED scores and ESG standards.

## Choosing Henry MiraCLAY for Your Next Project

For building owners and architects committed to environmentally responsible construction without compromising on quality and reliability, Henry MiraCLAY offers an ideal solution. Its sustainable attributes, coupled with superior long-term performance in low-risk environments, make it an ideal choice for projects where durability and eco-friendliness are crucial.

**Contact us today to discover how Henry can help you meet your project goals with confidence.**