

# MiraSEAL - 100%-Solids, Cold-Applied Fluid Waterproofing System White Paper

## Abstract

When a building needs waterproofing, many different technologies and application styles are available to help achieve protection from the damaging effects of water and moisture. These choices range from asphalt-based peel-and-stick membranes and bentonite clay panels to single- and multi-component fluid-applied systems. Regardless of what type of waterproofing system is used, it must ultimately protect the building from water migration and structure degradation.

## Problem

In today's advancing "green" movement and ever-increasing cost efficiencies, traditional fluid-applied waterproofing technologies are being pressured to conform to a growing list of requirements. One of these requirements relates to the product's percentage of volatile organic compound (VOC), which is a critical factor in a material's ability to be specified or even allowed on a jobsite. Once thought of as simply a means-to-an-end, local and federal building codes for waterproofing are requiring that material manufacturers create products that assist in the construction of longer-lasting, healthier buildings. A second consideration is being able to maintain high quality while minimizing costs. Water-based products are a cost-efficient option; however, long cure times and low solids content make these less-than-ideal solutions. Time is money, and longer cure times tie up the waterproofing crew with delays while low solid content requires a heavier application to achieve the necessary cured thickness. This is of particular concern for multilayered systems that take much longer to complete. Issues like these create challenges for waterproofing manufacturers by limiting the number of solutions that can protect a building while fulfilling time and budget requirements.

## Design

There is a constant need for fluid-applied waterproofing membrane throughout building construction that is free of volatile materials, provides a quick cure and conforms to ASTM standards. This membrane must also provide long-term performance and monolithic waterproofing coverage, as well as an easy application that requires standard tools, all while working within the above-mentioned guidelines.

## Solution

MiraSEAL™ has been developed to combat the need for a cold, fluid-applied membrane as a 100%-solids, moisture-cured material that provides substantial adhesion to a variety of surfaces, including green concrete, without the need for priming. Applicable for both horizontal and vertical applications, MiraSEAL is unaffected by porous substrates, due to its curing process, and provides a thorough 60-mil-thick cure-through in as little as three hours, allowing a complete, 120-mil reinforced system to be completed in a single day. By increasing productivity and allowing a waterproofing crew to complete more area in less time, MiraSEAL can significantly minimize overall project costs.

## Conclusion

As regulations continue to spur new technologies that advance the waterproofing industry, MiraSEAL is leading the way, offering superb performance and lasting protection. MiraSEAL is easy to use, complies with many state and local building codes and provides a fast cure that assists in expediting project completion times.