

# OptiMax™ Membranes

The OptiMax roofing system is designed to redefine performance and protection expectations as the world's first and only thermoset polyurethane-modified membrane. This membrane was developed using a unique, innovative technology that combines asphalt and polyurethane to create the longest lasting roof system in the commercial roofing market.



OptiMax is the highest performing, most cost-effective modified roofing membrane available on the market today. This long-lasting, puncture and fatigue resistant membrane is designed to be the top component of a modified bitumen roofing system. Due to its sustained performance over a longer life cycle, OptiMax significantly reduces the overall cost of ownership throughout the life of the roof.



## Enhanced Resiliency

The revolutionary idea of modifying an asphalt membrane with polyurethane reduces fatigue cracking, allowing the membrane to perform for longer periods of time. Advanced surface-testing has shown that after a year of elemental exposure, there are far fewer cracks in OptiMax compared to traditional modified roof membranes.



## Unique Chemistry

Garland's ground-breaking, patent-pending "active modification" process involves chemically locking the urethane modifier to the asphalt, providing enhanced performance characteristics. This extremely strong link prevents the oils within the membrane from "cooking out" over time, as is common with traditional modified membranes.



## Improved Weathering

Long-term UV protection on the surface of the membrane is a vital component in maximizing roof longevity. Urethane acts as a great adhesive, allowing the minerals to more strongly adhere to this compound, improving mineral retention and resistance to UV radiation.

# OptiMax™ Membranes

## Features

### **Unique Chemistry**

## Benefits

OptiMax membranes combine two of the most effective waterproofing materials on the market - polyurethane and asphalt - in a patent-pending “active modification” process involving chemically locking the urethane modifier to the asphalt, providing enhanced performance characteristics.

### **Superior Resilience**

OptiMax’s specially designed polyurethane resin remains resilient over time, resulting in a roof membrane that provides enhanced performance characteristics such as weatherability, chemical resistance, high-temperature resistance, impact resistance, and UV resistance, which increases the overall service life of the roof system.

### **Exceptional Weatherability**

The polyurethane resin designed specifically for OptiMax provides increased mineral retention and produces incredible protection against the effects of exterior exposure, and as such, OptiMax weathers slower than traditional modified bitumen roof systems.

### **Excellent Heat/Chemical Resistance**

The OptiMax membrane is designed to handle the stress of extreme temperature changes and is highly resistant to chemicals.

### **Long-Term Protection**

When subjected to ASTM D 4977 scrub testing, OptiMax retains more than 99 percent of its minerals as opposed to less than 80 percent on similarly tested traditional SBS-modified membranes, which significantly increases the membranes UV- and abrasion-resistance.

For more information, visit us at: [www.garlandco.com](http://www.garlandco.com)



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OptiMax has a patent pending.