

Membranes/Capsheets

OptiMax[®] Membranes

OptiMax was developed using innovative technology that combines asphalt and polyurethane to create one of the longest lasting roof systems in the commercial roofing market.



Enhanced Resiliency

- Modifying an asphalt membrane with polyurethane reduces fatigue cracking, allowing the membrane to perform longer
- 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

- “Active modification” process chemically locks the urethane modifier to the asphalt, providing enhanced performance
- Prevents the oils within the membrane from “cooking out” over time



Improved Weathering

- Long-term UV protection is vital in maximizing roof longevity
- Urethane acts as a great mineral adhesive for superior retention and resistance to UV radiation



Provides enhanced roofing performance characteristics.

Combines two most effective waterproofing materials - polyurethane and asphalt.

Excellent mineral retention produces incredible weathering protection.



The Garland Company, Inc.

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OptiMax® Membranes

Features & Benefits

Remarkable Chemistry Creates Superior Waterproofing Protection

Unique Chemistry

OptiMax membranes combine two of the most effective waterproofing materials on the market - polyurethane and asphalt.

Active Modification

The patented* "active modification" process involves chemically reacting the polyurethane modifier to specific molecules within the asphalt providing enhanced performance characteristics and weather-ability.

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.

Durability=Sustainability

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.

Mineral Retention

OptiMax was formulated with mineral retention as a top priority. Data shows that after being exposed for over four years in the hot California sun, OptiMax retained 92% of its minerals vs 82% of the control mineral membrane.

*OptiMax product is protected by U.S. Patents: #9,745,473, 10,907,045, 11,021,609, and 11,926,738



Advantages of OptiMax Membranes



Unique Chemistry



Active Modification



Exceptional
Weatherability



Superior Mineral
Retention



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