

## OVERVIEW & FEATURES

Solex is a white, environmentally friendly, reflective roof coating formulated from a water-based, fluoropolymer-acrylic resin. Solex contains a unique Kynar Aquatec® water-based PVDF resin to provide extended protection from exposure to water, humidity, temperature extremes, UV and atmospheric pollutants. Once cured, Solex preserves asphaltic roof surfaces and reduces under roof temperatures to create a more pleasant interior work environment that is less costly to maintain.

**Excellent Stain Resistance** - Solex contains Kynar Aquatec resin which picks up very little dirt and allows the Solex coating to stay white longer with proper roof slope and drainage. The Kynar Aquatec resin allows the coating to achieve higher total solar reflectance values and retain that level for many years.

**Energy Savings** - Typical dark colored built-up roofs can absorb over 70% of the solar energy that reaches them, creating temperatures over 180°F (82.2°C). Studies confirm that Solex can reduce roof temperatures by 50° to 80°F (10° to 26.7°C) and save significant amounts of cooling energy during the summer months.

**Increased Roof Life** - Solex is a white flexible finish that reflects the sun's ultraviolet rays and reduces the damaging effects allowing your roofs system to last longer. Over time, UV light degrades the chemical structure of a roofing membrane, which then causes chalking, cracking, shrinking, loss of flexibility and surface erosion. Solex's high-performance acrylic polymers give added impact strength, flexibility, adhesion and color retention to aged roofing systems.

## APPLICATION

The existing roof surface must be sound. Repair defects such as blisters, splits, fishmouths or failing coatings. Loose materials, standing water, debris, oil and other contaminants may prevent full adhesion of the coating and must be removed. Solex is designed for application by spray. Before use, stir the product. Do not thin.

### Asphaltic Surfaces

Apply 1-1.5 gal./100 sq. ft. (0.41 – 0.61 l/m<sup>2</sup>) of Pyramic® Plus LO (White) as a base coat. Once cured, spray-apply Solex at a rate of a 0.5 gal./100 sq. ft. (0.20 l/m<sup>2</sup>)(8 wet mils).

## PRECAUTIONS

- Do not apply when the ambient temperature is below 50°F (10°C) or above 95°F (35°C)
- Do not use on roof areas subject to ponding water
- Do not apply Solex when rain is imminent
- Do not allow product to freeze
- Store material in dry protected areas and on clean raised platforms
- A base coat of Pyramic Plus LO (White) is required prior to the application of Solex
- Coverage rates may vary based on surface condition / texture and do not take into account material loss due to spraying, surface texture, surface absorption, waste, etc.

| Technical Data                                   | Solex  |
|--|--|
| <b>Non-Volatile</b><br>(ASTM D 1644)             | 53.4%  |
| <b>Tear Resistance</b><br>(ASTM D 624)           | 176 lbf./in.                                     |
| <b>Density</b><br>@ 77°F (25°C)<br>(ASTM D 2939) | 9.5 lb./gal. (1.14 g/cm <sup>3</sup> )           |
| <b>Viscosity</b><br>(RT, flat blade)             | 117.5 KU   |
| <b>Weathering</b><br>(ASTM G 155)                | No deterioration over 1,000 hours                |
| <b>Elongation</b><br>(ASTM D 2370)               | 230%   |
| <b>Wet Film Thickness</b>                        | 8 mils   |
| <b>Color</b>                                     | Bright White                                     |
| <b>Shelf Life</b>                                | 12 months  |
| <b>Coverage</b><br><i>As top coat</i>            | 0.5 gal./100 sq. ft.<br>(0.20 l/m <sup>2</sup> ) |
| <b>Packaging</b>                                 | 5 gal. pail (18.9 l)<br>55 gal. drum (208.2 l)   |

| Eco-Facts          | Solex    |
|--------------------|----------|
| <b>VOC</b>         | < 50 g/L |
| <b>Reflectance</b> | 0.85     |
| <b>Emittance</b>   | 0.88     |
| <b>SRI</b>         | 106      |

For specific application recommendations, please contact your local Garland Representative or Garland Technical Service Department.



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

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(Only in Canada)

Tests verified by independent laboratories. Actual roof performance specifications will vary depending on test speed and temperature. Data reflects samples randomly collected. ± 10% variation may be experienced. The above data supersedes all previously published information. Consult your local Garland Representative or the home office for more information.

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