

OVERVIEW & FEATURES

Solex is an ENERGY STAR® qualified, 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 or metal roof surfaces and reduces under roof temperatures to create a more pleasant interior work environment that is less costly to maintain. Solex meets and exceeds all the requirements of CRRRC, Title 24 standards, and contributes to LEED® points.

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 total solar reflectance values of 0.90 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.

Versatile - Solex with Kynar Aquatec resin is a great coating for restoring the appearance of your metal roof system. Solex can convert a non-cool metal roof to a white cool roof and can restore faded colors. Solex also has great adhesion to previously coated Kynar surfaces.

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/m²) of Pyramic® or Pyramic Base Coat as a base coat. Follow with Solex, spray-applied at a rate of 0.5 gal./100 sq. ft. (0.20 l/m²).

Metal Surfaces

Apply 0.5 gal./100 sq. ft. (0.20 l/m²) of Rust-Go™ or Rust-Go VOC Primer. Then apply 0.5 gal./100 sq. ft. (0.20 l/m²) of Rust-Go VOC Top Coat. Follow with Solex, spray-applied at a rate of 0.5 gal./100 sq. ft. (0.20 l/m²).

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 Base Coat or one of the Rust-Go primers plus Rust-Go VOC Top Coat is required prior to the application of Solex
- When installing Solex over any of our SPF membranes a fresh base coat of Pyramic Base Coat is required
- 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.

Solex®

Technical Data	Solex
Non-Volatile (ASTM D 1644)	47.25%
Flash Point (ASTM D 93)	174°F (78.8°C)
Density @ 77°F (25°C) (ASTM D 1475)	10.40 lb./gal. (1.40 g/cm ³)
Viscosity	95-110 KU
Weathering (ASTM D 4798)	No deterioration over 1,000 hours per ASTM G 26 test requirements
Elongation (ASTM D 2370)	250% minimum
Tensile Strength (ASTM D 2370)	250 psi minimum
Wet Film Thickness @ 1/2 gal./100 sq. ft. (0.20 l/m ²)	8 mils (203.2 microns)
Color	White
Shelf Life	1 year
Coverage <i>As top coat</i>	1/2 gal. per 100 sq. ft. (0.20 l/m ²)
Packaging	5 gal. pail (18.9 l) 55 gal. drum (208.2 l)

Eco-Facts	Solex
VOC	< 50 g/L
Reflectance	0.9088
Emittance	0.90
SRI	111

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



0700-0023



Valid in U.S. only

For more information, visit us at: www.garlandco.com

The Garland Company, Inc.
3800 East 91st Street
Cleveland, OH 44105
FAX: 216-641-0633
Phone: 216-641-7500
Toll Free: 800-321-9336

Garland Canada Inc.
209 Carrier Drive
Toronto, Ontario
Canada, M9W 5Y8
FAX: 416-747-1980
Phone: 416-747-7995
Toll Free: 800-387-5991
(Only in Canada)

The Garland Company UK, LTD
Second Way Centre, Second Way
Avonmouth, Bristol UK BS11 8DF
Phone: 011 44 1174 401050 (Outside UK)
Toll Free: 0800 328 5560 (Only in UK)

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.

Solex, Pyramic, Rust-Go and Garland Greenhouse are trademarks of The Garland Company, Inc. The CRRC mark is a registered trademark of the Cool Roof Rating Council. LEED is a registered trademark of the U.S. Green Building Council. Kynar Aquatec FMS is sold under a trademark license from Arkema Inc., which is the owner of the Kynar and Kynar Aquatec trademarks. ENERGY STAR® is a registered trademark of the U.S. Government.