

Flex TPO Plus™ Cool Roof Systems

Environmentally sustainable
roofing solutions

Energy savings for new roofing or re-roofing applications

The heat-weldable single ply Flex TPO Plus Cool Roof System is based on advanced polymerization technology that combines the durability and weatherability of ethylene-propylene (EP) rubber with the heat weldability of polypropylene. The membrane is specifically formulated for long-term weather resistance without the use of either polymeric or liquid plasticizers.

Flex TPO Plus comes in wider sheets to help make installation faster and easier, with fewer seams and less material required. Warranties are available for up to 30 years. Flex TPO Plus membranes have no plasticizers or chlorinated compounds, for a superior environmental roofing solution.

Flex TPO Plus will not host mildew, bacteria or algae, so that reflectivity remains high, helping reduce air conditioning loads and helping reduce the urban heat island effect.

Advanced material, advanced solutions

- Wide window of weldability
- Outstanding puncture resistance
- High tack, self-adhering grade available
- Chlorine-free, no halogenated flame retardants
- No liquid or polymeric plasticizers
- Excellent low temperature impact resistance
- Excellent chemical resistance to acids, bases, and restaurant exhaust emissions
- Exceptional resistance to solar UV, ozone, and oxidation
- Low water vapor permeance and water absorption
- Hot melt extrusion processed for complete scrim encapsulation
- Warp knitted fabric (not woven) for smooth surface and greater thickness-over-scrim
- Polyester reinforcing fabric resists degradation by bacteria, mildew and fungi
- Heat welded seams are stronger than the membrane itself

Systems available



Flex Mechanically Attached TPO

Flex TPO Plus installs quickly and easily with standard mechanically attached techniques. Seams are hot air welded. Flex supplies all roofing components including insulation, pre-formed flashing, accessories and tools.

Flex RhinoBond® System

The new Flex RhinoBond System welds the Flex TPO Plus single ply directly to special coated plates fastened beneath the membrane. The result is faster installation and a roof certified to FM I-120 wind uplift standards.



Flex Fleece Back TPO Adhered Membrane

Flex FB TPO membranes can be adhered with Flex FB Substrate Adhesive, FB Low Rise Adhesive or Hot Steep Asphalt in new, re-roof (tear-off) and recover roof constructions. Since the FB TPO membranes are true thermoplastics, seams are hot air welded creating a seam as strong as the original membrane.

Flex™ TPO Plus™ for Outstanding Performance

Wider rolls for faster installation, less seaming

Flex TPO Plus comes in 5' and 10' rolls. Applicators save installation time and labor compared to products in narrower widths, and there is less membrane loss under welded seams.

“Green” features

- Outstanding cool roof solution
- Recyclable at end of life cycle
- Environmentally sustainable
- White, Tan and Gray Standard Colors
- Custom Colors available
- White and tan Flex TPO Plus membranes qualify for LEED™ credits
- Exceeds the requirements of California Title 24 for solar reflectance and emissivity.
- CRRG approved tested values for Flex White TPO
Initial Solar Reflectance: .76
Initial Emissivity: .90
Solar Reflectance Index: 94

A superior single ply TPO roofing system

Flex TPO Plus membranes come in 45-mil, 60-mil and 80-mil standard thicknesses. These highly durable single ply membranes have a textured polymer base, a tough polyester scrim reinforcement, which allows for structural movement with no splitting or cracking, and a special weathering layer for longer service life.

The top weathering layer is made of rugged thermoplastic polyolefin in a thickness that exceeds ASTM minimum standards. The extra thickness provides added protection against wear and airborne debris. In tests, Flex TPO Plus shows superior puncture resistance compared to other heat welded membranes. Flex TPO Plus provides exceptional long term UV protection and ozone resistance, making it especially long lasting in extreme climates such as the southern and western regions of the US.

Flex TPO Plus provides excellent chemical resistance and remains flexible in cold temperatures, and can be repaired by heat welding for an indefinite period of time.

COMMERCIAL



RESIDENTIAL



SOLAR



GREEN ROOF



Flex provides advanced roofing solutions for a wide range of applications, including cool roof, green roof and solar PV systems. Our technical expertise is second to none, and we support contractors and installers with technical assistance for all systems we provide.

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