

Hypalon from Burke

For Jobs No Other Pond Liner or Cover Can Handle

Burke
Rubber
Company

a division of Burke Industries



Hypalon® Pond Liners

Hypalon (chlorosulfonated polyethylene) is the most durable flexible pond liner/cover material yet developed. Field installations and accelerated aging tests by Burke Rubber Company, the leading pond liner/cover manufacturer, have demonstrated that under most conditions Hypalon liners and covers have an extremely long service life. So for the most demanding liner/cover jobs, or where other liners or covers have failed, Hypalon from Burke is the answer.



Weather Resistance

HYPALON synthetic rubber—regardless of color—will resist the elements better than any known materials now used for liners and covers. It is exceptionally resistant to oxidation, and is virtually immune to ozone and ultraviolet light.

Chemical Resistance

Compounds of HYPALON resist a wide range of organic and inorganic chemicals. HYPALON has for many years proved to be suitable for the containment of a large variety of industrial wastes.

Low Temperature

Compounds of HYPALON retain their flexibility at low temperatures. Repeated cycles of freezing and thawing do not cause mechanical damage, even under tension.

Color Stability

Burke Hypalon can be compounded in white and attractive light colors without sacrifice of its desirable properties. Colored products of Hypalon have been weathered out of doors for many years with minimal fading or discoloration.

Construction

Hypalon pond liners are made from a special polymer that is compounded, fabricated and

installed in a thermoplastic state. Factory seam fabrication, under controlled conditions, is done by a precise combination of heat and pressure. Field seaming uses a bodied solvent adhesive following a pre-wash to give equally reliable results under the varying weather conditions encountered during installation. After installation, a surface cross-linking develops which produces a stronger, tougher and more weatherable liner.

Reinforcement

Liners are supported or reinforced with one or more layers of woven fabric (scrim) encapsulated between several plies of rubber. Burke offers a wide variety of 3-ply and 5-ply constructions utilizing light, medium and heavyweight scrim.



3-Ply Reinforced



5-Ply Reinforced

The physical requirements for a liner may vary, with more tensile strength needed on the slopes and maximum elongation needed on the bottom to compensate for settling. A combination of light and heavy scrims in the different areas will optimize performance at a lower cost without the compromise on seam durability that is often associated with seaming dissimilar materials.



6 x 6



8 x 8



10 x 10

Grades

Burke Hypalon is available in an Industrial Grade, compounded to give maximum performance at elevated temperatures with a variety of chemical compounds. Burke also formulates a Potable Grade that meets the EPA requirements for potable water storage.

and Covers from Burke

The Burke Systems Approach

Engineering and Design Assistance

Successful liner installation begins with proper engineering and design. More than 100 million square feet of Burke Hypalon liners and covers have been installed, and Burke has provided technical assistance to engineers, designers, installation contractors and owners for installations world-wide. Experience in every climate and terrain, from Alaska's North Slope to the Arizona Desert or the Panama tropics, under all conditions of weather and wind, provides Burke technical sales representatives with a background of information to answer most questions and solve most problems.



Continuity of Control

Each stage of manufacture is under Burke's direct control. This includes compounding, calendering and fabrication. Technical supervision by a Burke-Approved Installation Contractor throughout installation gives an unbroken chain of responsibility through all phases of each project. Each Burke-Approved Installation Contractor is trained and qualified by Burke for the Burke products supplied. Proper installation by experienced contractors is maximized, as the manufacturer's material warranties require that proper, recommended procedures be followed at all stages of installation.

Flexibility of Selection

The many configurations made possible by the wide variety of scrim weights, 3-and 5-ply constructions, thicknesses and colors provide the flexibility necessary to select a liner or cover to specific requirements on a cost-considered basis.

Compatible Components

As a manufacturer and fabricator of lining materials, custom-made shrouds, wind/gas vents and adhesives tailored for each grade and color of Hypalon, Burke provides a coordinated systems approach for the long-term performance of every installation.

Convenience of Service

Burke works with a select number of Burke-Approved Installation Contractors who maintain offices or representatives in most parts of the world. As licensed contractors, they provide installation and service wherever the projects are located. Each contractor can respond promptly to emergencies, and has built a solid reputation in the area served.



Floating Covers

In 1953, the American Water Works Association recommended that all new reservoirs used for the storage of potable water be designed with a cover, and that existing reservoirs either be covered or provided with post-chlorination facilities.

Structural requirements for rigid roofs, with concurrent increased costs made initially designed roofs as well as retrofitted roofs prohibitive for many municipal budgets. An alternative to conventional rigid roofs has been the development of a floating roof. A flexible membrane material is attached around the perimeter with sufficient slack to rise and fall with the water level in the reservoir. A system of floats and sumps aids in wind control and assures proper drainage of rainwater.

Burke Rubber Company pioneered in the development of a special 5-ply Hypalon cover material that provides the added toughness without sacrificing the flexibility required by the dynamic loadings of a floating cover.

As the floating cover does not require any supporting structure or foundation reinforcement, addition to new or retrofitted reservoirs is relatively simple and inexpensive. The floating cover offers added savings by reducing required levels of treatment chemicals, in addition to retarding evaporation.

Floating covers have successfully been used to control odors in wastewater or sewage lagoons, and provide an anaerobic environment to assist in the collection of gases generated in the digestive process. For industrial applications, many noxious chemical fumes can be controlled with a 5-ply Hypalon floating cover.

45 MIL, 5-PLY HYPALON FLOATING COVER ADVANTAGES

- ★ Lower initial investment
- ★ Weathering warranty
- ★ Savings on chlorine treatment
- ★ Savings on algae control chemicals
- ★ Reduced maintenance — no painting
- ★ Reduced drainage and cleaning
- ★ Reduced evaporation losses
- ★ 100% seismic resistant
- ★ Increased safety
- ★ No supporting columns or reinforcements required
- ★ Handles snow, ice and rain with proper design
- ★ Protection from atmospheric pollution
- ★ Attractive appearance — color harmonized



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