

LINABOND®

PROTECTION and CONTAINMENT

With Linabond Co-Lining Systems™

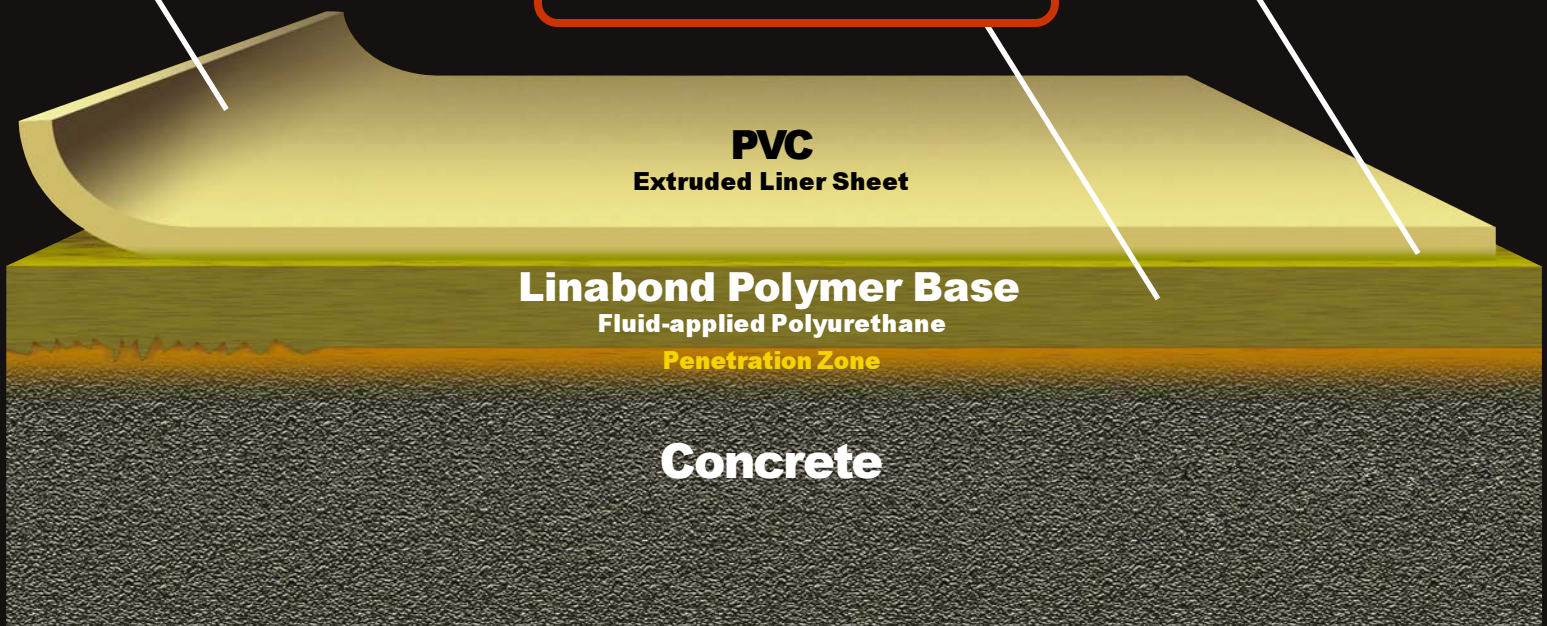
Why It Works...

The Basic Co-Lining™ Principle:

The PVC provides a pinhole-free extruded membrane which has proven itself over the **last 50 years** in the **protection** of wastewater structures. It has a good range of chemical resistance for wastewater environments and has excellent resistance to permeation by most fluids and gasses.

Linabond Polymers provide both an extremely effective anchoring method, and very **substantial backup protection** for the PVC. The Polymer is resistant to a **different** chemical range than the PVC. The System penetrates the concrete prior to polymerization, forming a saturated “zone” of high strength polymer composite material — part concrete and part polymer. Since the material is applied over 100% of the surface, lateral migration of fluids and gasses is eliminated, assuring complete protection and containment.

The Crosslink Activator creates a **molecular bond** between the PVC and the Linabond Polymer, providing an **extremely effective** fastening mechanism.



The Linabond Co-Lining System adds a new dimension to both **protection and containment** by combining the most desirable elements of different materials to provide a level of performance that was previously unattainable. The Systems have proven ideal for both new construction and rehabilitation of existing structures.



The Linabond® Co-Lining Systems™

U.S. & Foreign Patents #4,792,493, #5,268,392 & #5,389,692. Others pending.

Linabond Structural Polymer Systems™

provide true composite structural rehabilitation for almost all types of corroded or new wastewater structures. There are essentially two methods of application:

Linabond SP Mastic Systems™

are protective PVC Co-Lining Systems for new construction or rehabilitation of wastewater structures including wet wells, grit chambers, conveyance and diversion structures, process and storage tanks, digesters, and other areas needing corrosion protection or gas/liquid containment. The SP Mastic Systems can be installed on prepared new surfaces, aged surfaces or properly rebuilt surfaces where an air or hand placed repair mortar is used. The Linabond SP Mastic base polymer materials are trowel or spray applied to a prepared surface with typical thickness specifications ranging from 100 mils for new construction to 125 mils for rehabilitated surfaces. A 40 or 62.5 mil thick semi-rigid PVC sheet liner is chemically cross-linked to the Mastic as the gas barrier facing the service environment.

Linabond SP Pipeline Spray System™

is for pipeline rehabilitation and other areas needing fast structural repair, corrosion protection and gas/liquid containment. The system can be installed in either live or by-passed sewer environments. A major benefit of this system is the cure time; pipelines can be repaired and back in full service in hours. Many of the installations have taken place in the middle of the night and completed before the first morning flows. Linabond Structural Polymer, a spray-applied exothermic mix-at-point material, is applied to the prepared surface, replacing corroded concrete and steel, and providing renewed and greater structural strength. Typical repair thickness ranges from 0.25 inch minimum to 6 inches or more (if conditions warrant, such as point repairs). Immediately following the spray, a flexible PVC sheet liner is chemically cross-linked to the Structural Polymer as the gas barrier facing the service environment, thus forming a Co-Liner™ and insuring the ultimate impermeability of the repair. Spray experience and equipment are necessary for this System.

Linabond Simulform System™

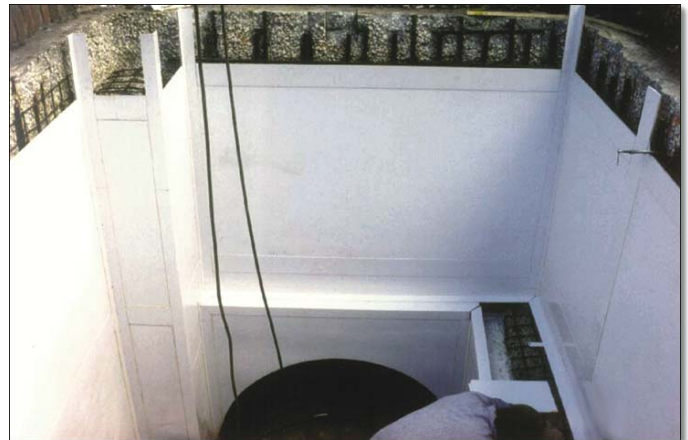
is for repair and protection of damaged structures or new construction including pipelines, wet wells, conveyance and diversion structures, grit chambers, process and storage tanks, and other areas needing structural repair or reinforcement, corrosion protection, or gas/liquid containment. Interlocking rigid PVC gas barrier/form sheets are installed with a small annular space between them and the prepared surface of the original structure. The rigid PVC acts as the form for the thermosetting polymer. A pour-applied exothermic mix-at-point Linabond Structural Polymer is injected into the space, simultaneously penetrating the substrate and cross-linking with the PVC liner to form a Co-Liner. The injected polymer thickness ranges from an average of 0.5 inch to 8 inches and begins hardening immediately. As with the Structural Polymer Pipeline System, the Simulform System will provide significant structural strength as well as a protective barrier to the corrosive wastewater environment; corroded concrete and steel are replaced and no mortar repair is either necessary or desirable.

Linabond Permanil™ High-Performance Coating Systems™

Provide the highest performance coating systems available, for areas where true extruded plastic liners cannot be used. These materials focus on eliminating the most common causes of coating failure and take coating design to a new level. They provide the lowest cost per square foot at the highest performance level possible for a coating system.



Above: The Linabond Structural Polymer Pipeline Spray System™ is ideal for rehabilitation of pipelines and brick sewers. Flexible PVC is used over (cross-linked into) the structural polymer in this system to repair and line the pipeline.



Above: The rigid Linabond Simulform System™ uses RIM (reaction injection molding) technology to rehabilitate structures. Rigid PVC is used as both a form and liner, forming an extremely strong composite with the concrete.



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