

# LINABOND<sup>®</sup>

## Permanil™ Coating Systems



Tensile strengths from **10,000 psi to 36,000 psi** are exceptionally high-strength materials in any comparison of plural component materials. Permanil™ materials offer those strength ranges along with extremely high applied densities in the field. **Permanil™ Fastglass has a flexural modulus in excess of 1.5 MILLION psi.** Linabond invented and developed the innovative Co-Lining™ Principle through a diligent long-term study of the benefits and failings of conventional coatings and liners. That effort resulted in a fairly thorough understanding of what causes coatings to fail, especially in gaseous environments where permeability is one of the key factors in the longevity (or failure rate) of coatings in general.

With well over two decades of experience, and millions of square feet of installations, Linabond has had one of the highest success rates in the wastewater industry and continues to provide the highest performance for the dollar of any wastewater protective membrane or rehabilitation system. We know, as you should, that coatings are not suited to the most aggressive corrosion environments and should not be used under those circumstances. But there are areas where a true extruded and crosslinked Co-liner™ is either impossible, impractical or too costly. And we also know, as you should, exactly what attributes a material must have in order to survive in a hostile, corrosive environment. Our polymers have always been designed specifically for the rigors of wastewater environments, and occasionally our customers have specified our thermoset polymers as coating materials without the PVC liner which we are best known for.

The Permanil™ Coating Systems are designed to be used without our PVC liner. They have been formulated to resist the forces in wastewater structures which create *the number one source* of coating failures; Permeability. In other words, they are formulated with the application difficulties of wastewater conditions in mind. They penetrate, they cure extremely fast and they form extremely dense cured films which have a very tight pore structure. They have chemical resistance which rivals and often exceeds that of extruded PVC. No coating material can be *applied* with absolute assurance of the impermeability of extruded PVC. But the design of the material *can* short circuit some of the most common failure mechanisms which plague all coating materials in wastewater. And designing materials is what Linabond does. If you are NOT going to put an extruded liner in your structures, at least use the best and highest performing coating available, from a company that really *knows* wastewater concrete. And one that has proven it for many years over millions of square feet.

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On the following pages you will find product profiles for several of our high performance coating materials. We would be very happy to work with you to help make sure that you get the right material in the right place, and that your installation is thoughtfully and carefully completed. Installation of technical high performance coatings requires a bit more proficiency than architectural or decorative "coatings" and your specification requirements, as well as your inspection during your project should be primary concerns. We can assist and we know of several very good consultants and consulting firms who specialize in this type of work if you would prefer an expert corrosion consultant to assist in your specification and construction management. **Linabond typically provides state-of-the-art Secure Internet Project management on all projects, regardless of who does the inspection. So you will have extensive data as your project proceeds, on a 24 hour per day basis, 7 days a week - in a visually rich media-oriented project site which is password protected.**

The product profiles are here simply for reference. We can provide you with samples of the materials and can recommend the most appropriate system (primer, coating and possibly topcoat for cosmetic considerations), once we know a little bit about your structures. These are very easy materials to use and we would be happy to demonstrate them for you, or you can very likely demonstrate them for yourself with a liquid sample, if you are at all familiar with two-component materials. Our Permanil™ materials are easier to use than ordinary epoxy glue that you would buy in a hardware store (you don't have to mix ours - they come out of the tubes through a static mixer and they are ready). Call us, or Email us, and tell us what you are trying to accomplish. We are confident that we can provide you with the very finest materials and technology available for this wastewater industry that we specialize in. We think you'll find that nobody does this better than we do, because it's all we do.



**Conventional coatings (and so-called liquid applied "linings") will always have severe problems with permeability when field applied.**

**Permanil™ materials have been designed to mitigate those problems and provide a truly viable wastewater coating material for areas where a PVC Liner is impractical.**