



Tech-Bond Solutions (TBS) Past, Present & Future

Over the last twenty years, Tech-Bond Solutions has developed new adhesive processes for hundreds of individuals, companies, and industries. Four years ago, we developed the Polymer Bonding Process. The Process, as we call it, bonds polymers to themselves, to other polymers and to almost other substrate.

Since 2016, numerous PhD's, dozens of engineers, and hundreds of technicians have used the Process to develop new solutions. We consulted with many of these people/businesses and what we have come to realize is that the advantage of the Process is, and always will be, the new solutions, the new horizons that become available via the Process. Tech-Patches represent one of those new answers to a problem, especially for the water/wastewater industry

The water industries biggest problem for now and the foreseeable future? Rising maintenance costs. Tech-Patches will allow you to repair, not replace, pipes and tanks. A crack or hole in PVC? Put a patch on it. A hole in steel pipe? Put a Tech-Patch on it. Cracked HDPE pipe? Seal with a Tech-Patch. A hole in a poly tank? Use a Tech-Patch to seal the hole. Tech-Patches will save your organization, thousands, tens of thousands of dollars or more.

Tech-Patches are made of fluorosilicone, the polymer of choice for extreme environments in the aviation and automotive industries. Once applied with the Process, Tech-Patches will not come off, the pipe or tank substrate; PVC, copper, ABS, galvanized, HDPE, or any other type of polymer.

Pipeline Solutions Inc, a sister company, is working with oil and gas service companies to develop solutions for two major problems. We are working with a Saudi company to solve the problem of thin walls. Corrosion is the cause of thin walls in oil and gas storage tanks. Tank walls are built with a corrosion allowance.

When internal corrosion causes a section of wall to become too thin, a repair is mandated. As a solution, welding is problematical. Currently, we are testing our MX Tech-Patches as a solution for wall thinning. Tech-Patches, the Process both open new solution paths. We look forward to working with any company to with a performance issue to find a new, better solution.

Patching thin walls is a local solution to a problem. Tech-Patches and the Process have contributed to global solutions, such as the issue in Canada which is about the development of an early warning system that detects pressure buildup in oil and gas pipelines.

There is no mystery in why such a system has not been developed. Sensors needed to be bonded to the pipes. Tech-Patches and the Process resolved that issue. Now that instrumentation can be bonded onto pipes, we have developed a system that would provide alerts whenever pressure builds within a pipeline. Our prototype integrates multiple technologies to create a workable solution.

Independently, Pipeline Solutions is on a composite wrap that will seal through wall Type B defects in oil and gas pipelines. Our Pipeline-Wrap meets all the requirements of ISO 24817, which specifies that a composite repair system for Type B defects will be a poly-fiber reinforced polymer. ISO 24817 further states that the “adhesive system is the key technology”. Since Tech-Bond’s Poly Kits bonds poly’s, our Poly Kit, i.e., the Process, is that key adhesive technology.

This commitment to developing solutions is what the Solutions companies are all about. As part of that commitment, we are establishing the Solutions Foundation. The Solutions Foundation will provide grants to individuals and companies who are trying to use polymers in new and different ways. Polymers have always been useful. The Process increases the utility of polymers exponentially.

TBS would like to work with you on any issues involving polymers. All the information on our Virtual Summit web page is available on our website, tbbonding.com. Please direct non-members in your organization to our website, tbbonding.com, to review this information. There will also be additional videos and information. If you have any questions, please call 877 565 7225 or email donmeyers@tech-bond.net.