

ENGINEERED COMPOSITE SOLUTIONS FOR INDUSTRIAL, PULP & PAPER



SYNTHO • GLASS®

Fiberglass Water-Activated Composite Solution

Syntho-Glass® is the original, patented fiberglass pre-impregnated composite that is activated by salt or freshwater. Packaged in a hermetically sealed foil pouch, it is ready to use and does not require any measuring or mixing. This system, when used with the appropriate primary patch, enables you to repair and reinforce virtually any diameter pipe in minutes. Syntho-Glass not only restores a pipe to its original psi rating, but actually can make the repair area stronger than the original pipe, plus it reduces downtime, saving you thousands in parts and labor. It is safe to use, nontoxic, noncombustible, and odorless. Syntho-Glass is a versatile solution for industries where quick-action repair can be critical.



SYNTHO • GLASS® UP

Repair Kit for Active Pipe and Joint Repair

Syntho-Glass® UP Repair System was specifically designed for under pressure repair applications on copper, steel, SS, PVC, FRP, clay, concrete, rubber, and more. By combining the original Syntho-Glass® product, with the extremely chemically resistant Syntho-Steel™ and unique Pressure Sealing Rubber Tape, this offers the geometric flexibility to repair joints, tees, couplings, and pinholes. This complete system simplifies the application process and is prepackaged to accommodate pipes up to 10 inches in diameter. Larger repair applications can be engineered to meet your requirements.



SYNTHO • GLASS® NP

Repair Kit for Cracked or Broken Pipes and Joints

Syntho-Glass® NP Repair System was specifically designed for depressurized repair applications on copper, steel, SS, PVC, FRP, clay, concrete, rubber, and more. By combining the original Syntho-Glass® product, with the extremely chemically resistant Syntho-Steel™, this offers the geometric flexibility to repair joints, tees, couplings, and pinholes. This complete system simplifies the application process and is prepackaged to accommodate pipes up to 10 inches in diameter. Larger repair applications can be engineered to meet your requirements.



SYNTHO • STEEL™

Two-Part Steel Reinforced Epoxy Putty

Syntho-Steel™ is a two-part, steel reinforced epoxy putty. It cures in minutes and can repair most anything made of metal, masonry, wood, ceramic, glass and plastics. Syntho-Steel contains no solvents, is non-toxic and easily prepares for application. Unlike liquid epoxies, Syntho-Steel will not drip or sag and will set on wet surfaces. NSF 61 approved for use with potable water.





SYNTHO ♦ POXY™ HC

Two-Part Epoxy Compound

Syntho-Poxy™HC is a two part epoxy compound that cures quickly at room temperature. Its high compressive strength makes it very suitable for repairing pitted metal and steel surfaces that are subjected to high pressure. Syntho-Poxy HC's fast cure and extremely high bond strength make it ideal for many tough repair projects where normal epoxies won't hold up. The mix ratio of Syntho-Poxy HC resin to hardener is 1:1 by weight and volume. When fully cured, the material produces a durable, resilient bond that is resistant to many solvents and adverse environments.



SYNTHO ♦ SUBSEA™ LV

Low Viscosity, Self Leveling, Underwater Epoxy Mastic Sealant System

Syntho-Subsea™LV Epoxy is a unique blend of liquid epoxy, polymer, and aliphatic polyamine curing agents that is able to displace water from wet surfaces in order to make a permanent bond. The formulation is solvent-free to ensure safety and maximum technical performance. Kevlar® fibers are incorporated for reinforcement and viscosity management to achieve high-application rates – even underwater. While providing permanent protection under the most adverse conditions, the formula is uniquely field-friendly and uses advanced, low-toxicity ingredients in a high-build brushable/rollable product. Syntho-Subsea LV Epoxy can be shipped nonregulated by USDOT, IATA, and IMO.



THERMO ♦ WRAP™

Composite Repair System for High Temperature and Process Piping

Thermo-Wrap™ is a custom engineered composite system utilizing a high strength, bidirectional, woven fiberglass tape in combination with NRI's proprietary Thermo-Poxy™HC epoxy system for the repair and restoration of pipe operating at elevated temperatures. This composite repair system was designed and tested to repair defects in accordance with the ASME PCC-2 and ISO TS-24817. Thermo-Wrap is specifically designed for repair applications which require the composite to maintain the high design strengths in high temperature environments, while still curing under room temperature conditions.



COMPOSITE ♦ GUARD™ FP

Composite Repair System for High Temperature and Process Piping

The Composite Guard™FP System utilizes nano-technology to create an integrated fire proofing system for application on high risk piping within fire proofing zones in refineries and on offshore platforms. The Composite GuardFP System protects the composite repair under extreme fire conditions by creating a barrier between the external flame temperature and the composite repair's outer substrate. The extremely low thermal conductivity of the barrier prevents the composite repair system from reaching temperatures exceeding the maximum temperature rating, preventing degradation or failure of the composite.

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