

ENGINEERED COMPOSITE SOLUTIONS FOR INDUSTRIAL, PULP & PAPER



SYNTHO-GLASS®

Fiberglass Water-Activated Composite Solution

Syntho-Glass is the originally, patented fiberglass pre-impregnated composite that is activated by salt or freshwater. 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, reducing downtime, saving in parts and labor. With an initial setting time of only 30 minutes (75°F/24°C), 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 leak 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 pipe 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 and BS6920 approved for use with potable water.





SYNTHO-POXY™ HC

Two-Part Epoxy Compound

Syntho-PoxyHC 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. 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. Provides 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 non-regulated 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 conjunction with NRI's proprietary Thermo-Poxy epoxy system for the repair and restoration of pipes operating at elevated temperatures. This composite 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 Fire Proofing System

NRI's 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 Guard FP 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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