

Stop It® Gas Riser Rehabilitation Kit

by InduMar Products, Inc.



The Stop It® Gas Riser Rehabilitation Kit has been developed in cooperation with leading gas companies to provide a cost effective composite coating that will enhance the structural integrity of anodeless risers.

The STOP IT® Gas Riser Rehabilitation Kit is intended to strengthen the structural integrity of the riser nipple, or riser casing on non-leaking 3/4" and 1" standard anodeless risers. It is comprised of a strong knitted fiberglass tape coated with fast setting, water-activated urethane resins and FIX STIX™, a steel filled hand moldable epoxy used to taper offsets and transitions.

Using the STOP IT® urethane rich fiberglass tape in combination with FIX STIX™ greatly increases repair capacity. One person with no special tools, no mixing, and minimal surface preparation can quickly repair in-field corroded piping in minutes without shutdown or pipe replacement.

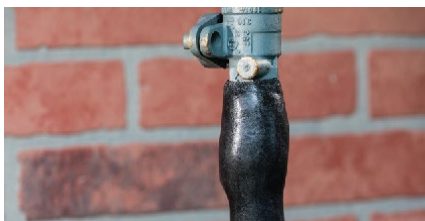
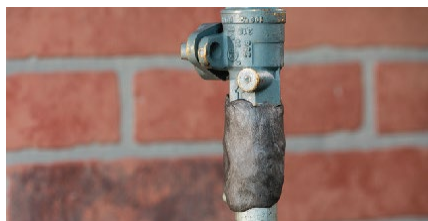
The STOP IT® Gas Riser Rehabilitation Kit is a necessary item in an inventory of products for minimizing corrosion-related operating costs.

Applications

- Riser reinforcement
- Riser protection
- Re-strengthening corroded pipe
- Corrosion protection
- Air to soil interface

Benefits

- One person, no special tools
- Fast and easy
- No shut downs or relights
- No pipe replacement
- Easily conforms to irregular shapes



Technical Specifications

Shelf Life: 2 years from date of purchase

Temperature/Heat Resistance: From -20°F up to 250°F – continuous.

Set Time: Tack free in 3 to 5 minutes at ambient temperatures of 50°F to 80°F

Cure Time: Cures in 30 minutes at temperatures between 50°F to 80°F

Tensile Strength: ASTM D 3039, 24,950 psi/in width/ 172 MPa

Flexural Yield Strength: ASTM D 790-I-B, 12,005 psi

Durometer Hardness: ASTM D 2240, 63 (Shore D)

STOP IT® Gas Riser Rehabilitation Kit Contents

- STOP IT® knitted fiberglass tape precoated with water-activated polyurethane resins
- FIX STIX™ hand moldable epoxy*
- Gloves for easy clean up
- Detailed directions

Packaged 10/Case

GRR2x12BLK 2"x12' BLACK; shipping weight 7 lbs"

* Included FIX STIX™ is resistant to hydrocarbons and most chemicals.



The STOP IT® Gas Riser Rehabilitation Kit has been evaluated by the Gas Technology Institute (GTI) with respect to the in-field repair of gas risers. GTI is an independent, non-profit research and development organization, active in evaluating new energy technologies. The executive summary of their findings is reproduced with permission below.

Establishing Permanence Of Repair Systems For Above Ground Leaks

May 27, 2016

Executive Summary

The aim of this project was to conduct a thorough evaluation of repair methods for leaks of above ground piping in an effort to establish permanency of the repairs. Based on an in depth review of current repair systems for above ground leaks, three manufacturers and four repair products were chosen.

The repairs were applied to unused 1" schedule 40 steel pipe samples per each manufacturer's procedure and evaluated per specific clauses of Gas Industry Standard (GIS) LC8-1:2006 Specification for Methods of Repairing Leaking Ferrous Gas Mains. Based on the testing and analysis performed in this project the performance of each repair product per each test method was ranked.

Various degrees of performance were observed for each repair product evaluated by each test method. The overall ranking of the repair products was based on performance in all of the test methods utilized in this project. The repaired specimens of all four repair products met the 50-year lifetime integrity validation requirement of GIS/CL8-1:2006 Clause D.7. **However, the number one ranking of the STOP IT® Gas Riser Rehabilitation Kit is based on it outperforming the other three repair products in all of the tests performed in this project.**

Table I. Performance Ranking of the Evaluated Repair Products

Test Method	Product #1 (Live Joint Repair)	Product #2 (Non-Live Pinhole Repair)	Product #3 (Non-Live Pinhole Repair)	Stop It® (Non-Live Pinhole Repair)
Cleavage Strength Test	N/A	N/A	Failed	N/A
Impact Testing	Failed	Passed	Passed	Passed
Accelerated Corrosion Testing	Rank: 2nd	Rank: Joint 1st	Rank: 3rd	Rank: Joint 1st
Short-Term Pressure Testing	Rank: 3rd	Rank: Joint 1st	Rank: 2nd	Rank: Joint 1st
Long-Term Pressure/Life Testing	Passed	Passed	Passed	Passed
Temperature Cycling ¹	Rank: 3rd	Rank: 2nd	Rank: Joint 1st	Rank: Joint 1st

¹ Temperature cycling is not a clause in GIS/LC8-1:2006 and was added to the test matrix at GTI's recommendation to test the temperature resistance of the repair method.