

ARC GLASS WRAP

EMERGENCY LEAK SEALING SYSTEM INCORPORATING NSF 61 CERTIFIED MOISTURE TOLERANT RAPID CURING EPOXY PUTTY WITH A MOISTURE CURED URETHANE FIBERGLASS WRAP

The Chesterton® ARC Glass Wrap System utilizes a proprietary moisture cured resin, impregnated into a high tensile strength fiberglass cloth. When water activated and wrapped over ARC 5ES, ARC Glass Wrap cures and reinforces the ARC 5ES seal and can withstand up to 120 PSI within 1 hour of installation.

Features and Benefits

- In-field repairs—reduce time.
- Emergency repairs—avoid high costs associated with downtime or equipment replacement.
- Wet on wet repair capability
  - Fiberglass wrap applied immediately after ARC 5ES.
  - Systems cure simultaneously, reducing overall repair time.
- Repair static leaks and through wall failure.
- Withstand up to 120 PSI pressure.
- ARC 5ES sets to full strength within 1 hour.
- ARC Glass Wrap urethane impregnated fiberglass wrap sets to full strength in 1 hour.
- Excellent adhesion to most substrates.



Industries

Power, chemical, oil and gas, pulp and paper, water and wastewater, steel, mining and ore processing, and institutional

Applications

Tanks, vessels, pipes, elbows, flanges, equipment casings, heat exchanger shells, and ducting







Item#	Packaging Includes	Coverage
ARC Glass Wrap	• 1 × 114 g stick of ARC 5ES • 4" x 12' glass fiber • Abrasive sand paper • Alcohol swab • Gloves	4 ft^2

Technical Properties	ARC Glass Wrap Kit
Pressure Rating (10 mm hole at 1 hour)	120 PSI
Pot life ARC 5ES Pot life ARC Glass Wrap	10 minutes 30 minutes
Set Time	1 hour
Temperature Resistance (Wet)	130˚F

Product Case Study

Challenge

Issue

A soap manufacturing facility experienced a serious leak in the discharge piping of a 15,000 liter demineralized process water tank. The leak developed within a corroded spool piece near a flange connection, caused by prolonged exposure to water and chemical residues inherent to the soap manufacturing process, leading to advanced internal corrosion. The leak progressively worsened, creating a constant drip and raising concerns about potential tank drainage, process disruption, and costly downtime.

Goals

Perform in-situ repair without causing process disruption and downtime. Avoid a 4 day shut down at $150,000/day.

Solution

Preparation

The leak was isolated, and then the surface was power tool cleaned to SP10/Sa 2 1/2 finish. The surface was then decontaminated to allow for a proper repair.

Application

ARC 5ES was applied to repair the damaged area, followed by **ARC Glass Wrap** fiber to reinforce the pipe.

Results

Increased Reliability

The **ARC Glass Wrap** solution delivered immediate and measurable benefits:

- Leak completely sealed
- Pipe operation restored
- Tank remained fully operational
- No production interruption required

Return on Investment

ARC Repair Cost	$550
Estimated Pipe Replacement	$4,500
Immediate Estimated Savings	$3,950
Asset Life	Extended service life of the piping
Downtime Avoidance	**4 days of lost production @ $150,000/day**

$ = USD



Significant leak from discharge pipe.



ARC Glass Wrap Kit.



Discharge pipe fixed and back in service.

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