



LEAK SEALING

Flat Patch Tank Repair Kit

MANUFACTURED BY **INDUMAR SYSTEMS, LP** · DISTRIBUTED BY **ECS**



A carbon-epoxy composite repair system engineered for **active sealing** where localized repair is needed or full pipe wraps are impractical. A preformed carbon sheet combined with advanced adhesives enables working pressures up to **1,000 PSI (70 kg/cm²)** and operating temperatures up to **350°F (177°C)**.

The Flat Patch Tank Repair Kit consists of a preformed carbon composite sheet and two advanced epoxy adhesives to provide superior leak sealing on flat surfaces. This novel approach enables the sealing of **actively leaking** defects, the localized repair of tank surfaces, and the ability to bond through oil contamination — recommended for pressure applications up to 1,000 psi with a built-in 4:1 safety margin. Return to service at pressure may be accomplished in ~2 hours for temperatures above 75°F.

Key Attributes

- Adaptable composite construction with time-efficient installation addresses a wide range of tank sizes
- Advanced adhesives eliminate leaks **without the need to drain the tank**
- Cartridge dispensing minimizes waste, ensures complete mixing, and manages pot life
- Short cure time allows rapid repair and reduced time on site
- Outstanding compressive, flexural, and adhesive bond strength
- Accelerated cure times possible with annealing of the installed repair
- Restores operations up to 1,000 psi and provides localized corrosion inhibition

HANDLING & APPLICATION

Patch Size	8" x 8"
Packaging	Putty + dual cartridge
Shelf Life (A / B)	12 mo @ 75°F
Storage Temp	32-100°F
Application Temp	50-150°F (10-65°C)
Surface Prep	Free of scale / debris

Kits include static mixers, spreaders, and gloves. Two-part dispensing guns sold separately. Remove other surface coatings before application where possible.

1,000 psi

WORKING PRESSURE

350°F

MAX OPERATING TEMP

~2 hr

RETURN TO SERVICE

PRIMARY ADHESIVE

Form	2-part epoxy putty
Preparation	Mixed by hand
Working Time	2 minutes
Set Time	<20 minutes
Lap Shear (steel)	900 psi
Rating	NSF potable water

SECONDARY ADHESIVE

Mixing Ratio	10:1
Working Time	15 minutes
Cure Time	<2 hours
Lap Shear (steel)	>2,175 psi
Tensile Strength	2,750 psi
Elongation	~60%
Glass Transition	113°C

CARBON COMPOSITE FORM

Tensile Strength	74,600 psi
Tensile Modulus	9.08M psi
Compression	40,600 psi
In-plane Shear	11,900 psi
Repair Thickness	0.10 in
Heat Resistance	-20 to 212°F

Working time is greatly reduced with increased ambient temperature; cure time is significantly extended at lower temperatures.

LEAK

SEALING

MECHANICAL

REINFORCEMENT

WEAR

RESISTANCE

CHEMICAL

RESISTANCE

CORROSION

CONTROL



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