URETEK USA

URETEK Stitch-in-Time

PANEL REPLACEMENT

Easy, Fast, Inexpensive Roadway Repair

Uretek USA's products, services, and technologies provide the industry's best, most cost effective, fastest, and safest solution to pavement lifting and soil stabilization. A pioneer in applying the latest technologies to solving complex problems. Uretek USA leads the industry in delivering the 'no disruption' cure for infrastructure, pavement, roadway, bridge approach/departures, and runway repair.

Real-Time

All Uretek USA technologies solve complex soil stabilization, pavement lifting and replacement problems in real-time. Through innovative approaches to pre-cast panel replacement, Uretek USA has solved issues of time, safety, and strength, while extending the lifespan of critical concrete assets. Uretek USA puts you in control of your roadway/runway panel replacement projects. Uretek USA makes sure you can replace key concrete panels in a fast, sure, and safe manner without major disruption. Uretek's patented Stitch-In-Time® ensures your roadways/runways are smooth, safe, and long-lasting.

Low Cost

Time, labor, materials, traffic safety, and permanence are all factors in to the cost of doing the project. The Uretek Stitch-In-Time technology contributes to lower cost in all of these areas. Stitch-In-Time easily restores total load transfer to jointed, cracked, or damaged concrete pavements in a minimum of time, with minimum labor, and virtually no disruption, while immediately contributing to the extension of your concrete asset lifespan.

Fast and Accurate

Concrete panel replacement can be expensive and time consuming. Imagine being able to remove up to 60% of the labor cost, 80% of the time, and being able to restore traffic almost immediately. Stitch-In-Time technology quickly and accurately connects and restores load transfer capabilities between concrete panels, speeding time to repair and restoration of traffic safety. No other technology comes close.

Efficient and Safe

Just like every Uretek USA solution, Stitch-In-Time is the most efficient and safe method for connecting concrete panels and strengthening highway roadways, taxiways, or runways. Simple concrete saw cuts, insertion of composite inserts, application quiet, fast and strong bonding agents, and sealing of the saw cuts is all that is required. Through state-of-the-art equipment and technology, Stitch-In-Time is the most effective and safest way to restore load bearing capacities and strength to your concrete assets. It is that simple.

Proven and Successful

Uretek USA has successfully completed more than 75,000 projects, worldwide. The Uretek Stitch-In-Time technology, invented and patented in the 1998, has already proven to be the best in the industry, setting a new 'standard' in speed, ease, safety, and strength. In fact, Uretek USA was awarded the highest national honor from the American Concrete Paving Association for its technology and results. Go with the best. Don't compromise your concrete panel replacement or repair projects.

- **½" Saw Cuts**
- **Composite Inserts**
- **Polymer Bonding**
- **Stronger than Steel**
- **Least Expensive**

Stitch-In-Time
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PANEL REPLACEMENT

Uretek Stitch-In-Time® Technology

The Uretek Stitch-In-Time Technology is used to easily restore total load transfer to jointed, cracked, or damaged concrete pavements. Composite inserts are placed in ½" saw-cut slots and bonded into place with sand and our hybrid ultra-dense polymers. Rapid curing allows almost immediate traffic restoration. The process is notably stronger, faster, and less expensive than steel dowel bar retro-fit work.

Independent Lab WJE Testing Results

	Stitch-In-Time	Steel Tie Bar*
Ultimate Load	21,360 lbs.	8,605 lbs.
Relative Joint Displacement	0.17 in. (0.01@ 8K)	0.15 in.
Load at First Softening	12,500 lbs.	2,000 lbs.
Ultimate Avg. Stiffness	125,500 lbs./in.	57,400 lbs./in.

*traditional #6 steel tie bar

Project Solution Comparison Chart

	Stitch-In-Time	Pour-In-Place
Time Frame	8 hrs.	8 hrs.
# Panels	4-7	1-2
Ready for Use	15 mins.	18+ hrs.
Material	Precast Panels	"High Early" Pour
Cost	Low	Very High

Stitch-In-Time Characteristics

Non Corrosive: Because the stitching materials are non-metallic, there is never an issue of having the load-transferring repairs corrode and break. Uretek Stitch-In-Time lasts longer than steel dowel repairs.

No Cracking Adjacent Concrete: Unlike steel dowel repairs, Stitch-In-Time does not create the possibility of new concrete cracking due to improper drilling or steel bar placement. All concrete panels retain their structural strength as originally designed.

Best Ride Quality: Uretek Stitch-In-Time technology restores original ride quality to the roadways and runways, every time. Unlike other methods, which do not address ride quality, Stitch-In-Time ensures achievement of proper slab height, precise alignment with adjacent slabs, and the smoothing of all construction work. Roads/runways are restored to original specification.

Interlocks Adjacent Slabs: Because Uretek Stitch-In-Time utilizes the proven Uretek Method, soils underneath primary and adjacent slabs are stabilized and 'interlocked' together at the base, improving load transfer, reducing moisture infiltration, and immobilizing fines.

Award Winning: Uretek And Stitch-In-Time have Received the highest regional and national recognition from customers and industry experts.