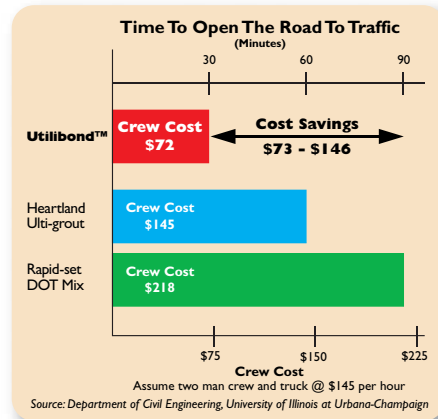


# Utilibond™

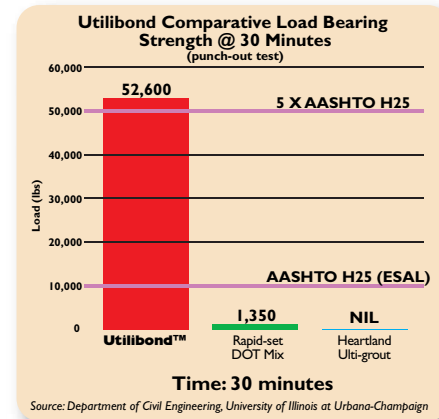
## Permanent Pavement Bonding Compound

**Easy to use:** Utilibond is specially formulated for use in permanently reinstating pavement cores in asphalt, and concrete roads, sidewalks and other paved surfaces. Utilibond is an easy-to-use (just add water), fast-setting, high-strength, water-proof bonding agent that comes in two colors (Aged Asphalt and Natural Concrete) to blend right in. It has a two-year shelf life and comes in its own sealed, polyethylene, mixing pail. No flimsy paper bags.



**Fast:** Time is money. And waiting for a road repair to gain sufficient strength before safely reopening the road to traffic, can be a huge public inconvenience. Utilibond's rapid hydration and ultra-fast strength gain allows repaired roadways to be safely reopened to traffic in just half an hour. This results in much less traffic delay and savings of at least \$70 in crew costs per utility cut when compared to other products that can take more than an hour to gain sufficient strength to meet AASHTO H-25 load bearing safety standards.

**Strong:** Utilibond provides a perfect water-proof seal every time and a bond strength that is stronger than the original pavement – exceeding AASHTO safety standards by 5 times in only 30 minutes.



**Uniform:** Every Utilibond repair is the same, because each Utilibond pail shows you exactly how much water to add. There is no guesswork and no waste or premature hydration. *Just set it and forget it.*

### The Benefits of Utilibond™

**Fast setting • Rapid strength gain • Forms waterproof bond • Two-year shelf life • 15 year failure-free track record**  
**Excellent freeze-thaw resistance • Sealed polyethylene mixing pail, calibrated for easy use**

### What Others Have to Say ...

"Our crews have been using Utilicor coring equipment and Utilibond for two years and have achieved impressive results and increased customer satisfaction. No more jack-hammers, no debris left behind to dispose of and no waiting for paving restoration. At the end of the day the only thing left to mark our presence is a small circle in the pavement that is almost invisible."

**George Mirtsopoulos**  
 Keyspan Energy Delivery, New York City

"... in over 20 years in the gas distribution business, this is the most exciting innovation I've seen."

**Keith Griffin**  
 Operations Manager Nicor Gas, Chicago

"Keyhole coring and reinstatement with Utilibond is a better alternative to traditional excavation. It not only reduces our pavement restoration and excavation costs but it greatly reduces the risk of damaging underground utilities while excavating."

**Kenny Pollock**  
 Manager Gas Operations Support  
 Southwest Gas Corporation, Las Vegas

"Northern Pipeline Construction has used Utilicor coring equipment and Utilibond for several years both in keyhole repairs and in potholing to identify and avoid potential conflicts during directional drilling. It is definitely a technology whose time has come."

**Michael J. Kemper**  
 President & CEO  
 NPL Construction, Phoenix

"Utilicor's coring units and Utilibond have 'made my day'. Coring a hole through pavement, doing the repair and being able to reinstate the core back into the pavement and open the road again to traffic within half an hour of the repair, is a huge saving of time and money and the neighbors like it too. No more lengthy road closures and traffic disruption. And when we're done, we leave the road in much better condition than we would have with conventional repair methods. It's a win-win, situation for everyone."

**Don Cordone**  
 Senior Gas Operations Specialist  
 National Grid, Syracuse

"Fewer and shorter duration traffic disruptions, virtually no damage to surrounding pavement, a much more aesthetically appealing repair, lower cost and finally, a substantial reduction of damages to existing utilities, are just some of the advantages of the Keyhole Coring and Reinstatement process. I find it very challenging to list any disadvantages."

**Murv Morehead,**  
 ROW Coordinator  
 City of Overland Park, Kansas

# Utilicor™

TECHNOLOGIES INC.

## Core Competence.



**Utilicor™**  
 TECHNOLOGIES INC.

### Utilicor Technologies Inc.

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The cutting edge in keyhole technologies™

## The Utilicoring System

Utilicoring is a unique rotary coring and pavement reinstatement system that has been developed and field-proven in North America over the past 15 years with more than 50,000 cores cut and replaced in tough urban climates and ZERO failures.

The principal element is a robust, purpose-built, truck or skid steer mounted coring unit that cores an 18-inch or 24-inch circular hole up to 22-inches deep through all types of paved or hard surfaces allowing the utility crew to vacuum excavate down to the pipe or plant and make

necessary repairs, or to verify the exact location of a potential underground conflict when directional drilling.

After the repair, the hole is backfilled to the level of the base of the pavement and the core or coupon of pavement that was originally removed, is reinserted back into the pavement and permanently bonded by a proprietary adhesive called *Utilibond™*. No temporary patching or repaving required. Thirty minutes after the repair has been completed, the road can be safely reopened to traffic, saving both time and money.

## Why Utilicoring is the best solution for:

### The Utility

**Saves Money:** Dramatically reduced paving budgets. Save up to \$1,000 per hole or \$1 million or more per year vs. traditional cut & repair methods.

**Positive Community Relations:** Faster less intrusive process. Fewer complaints from municipalities about traffic disruption, unsightly road cuts, sunken patches or weakened or failed roads.

**100% Performance Index:** More than 15 years and over 50,000 successful coring and reinstatements.

**Improved Logistics:** Single crew, one-stop, same-day coring and pavement reinstatement means simplified scheduling, no temporary patching or repaving and no repeat visits.

### The Crew

**Easy to Operate:** No extensive training required.

**Easy on the Back:** Physically less demanding on the crew. Eliminates the need for jack-hammers, shovels and backhoes. Reduces potential for workplace injury.

**Easy to Use:** Utilibond™ permanent pavement repair compound is packaged in easy-carry, easy-open, pre-measured pails. No awkward measuring and mixing from fragile paper bags. Just add water to the line, stir and pour into the hole.

**Safe:** Work-safe engineered equipment and non-hazardous bonding materials.

**Reliable:** Utilicor coring units are the only Heavy Duty, purpose-built, coring equipment capable of quickly and easily cutting through asphalt, asphalt-concrete and reinforced concrete road systems and sidewalks.

### The Community

**Reduced Traffic Disruption:** Faster one-step permanent pavement repair means reduced traffic disruption with fewer and shorter road closings with no repeat visits. The road can be open for traffic just 30 minutes after the repair.

**Saves Tax Dollars:** Less intrusive, more precise, pavement coring and reinstatement process means less structural damage to road system, longer pavement life and reduced maintenance. Saves millions of tax dollars.

**Reduced Footprint:** Neat, almost invisible, 18 inch diameter circular, keyhole core (area: 1.75 sq. ft.) vs. 2 ft. x 4 ft. conventional rectangular road cut (area: 8 sq. ft.) means reduced 'scarring' of the community landscape.

**Environmentally Friendly:** No road-cut spoil to be disposed of and no temporary patching compounds with volatile organic compounds (VOC's) to escape into the atmosphere.

**Cleaner, Safer, Less Intrusive Worksite:** No jack-hammers or large excavation equipment means less mess during and after the excavation and reduced disruption for neighbors.

## The Utilicoring Process



1. The coring truck sets up and cores up to an 18" diameter hole up to 22" deep in the sidewalk or roadway in minutes.



2. Using a core puller, the core is easily removed, allowing vacuum excavation and the utility repair to proceed.



3. After the repair is complete, the hole is backfilled to the base of the pavement. The Utilibond™ is mixed with water and poured in.



4. The coupon or core is replaced, the excavation and reinstatement site is virtually invisible, and the road can be reopened in thirty minutes.

## The Utilicor Savings

Save 60%\*\* vs. traditional road-cut methods.

### The Cost Advantages of Utilicoring

	Conventional Road Cut	Utilicoring Process
Road cut with concrete saw	\$375	\$ 0
Break out by backhoe & disposal	\$175	\$ 0
Setup & rotary cut (estimated)	\$ 0	\$200
Vacuum excavation and Backfilling after repair	\$200	\$200
Replacement and permanent Bonding of coupon	\$ 0	\$100
Temporary surface patch/repair	\$100	\$ 0
Permanent repair	\$150	\$ 0
Road Rehabilitation fee	\$500	\$ 0
<b>Total</b>	<b>\$1,500</b>	<b>\$500</b>

\*\*Based on actual and beta assessment outlined in this chart. Specific results may vary.

## The Utilicor Benefits

- ✓ **Keyholes are Smaller and Stronger:** Keyhole cores are less than one-quarter the size of conventional utility cuts and, when reinstated with Utilibond, are waterproof and able to support a single wheel load of more than 50,000 lbs – FIVE times the AASHTO H-25 standard.
- ✓ **Keyhole coring and reinstatement results in shorter road closings, fewer site visits and less traffic disruption:** Keyhole coring and reinstatement enables same-day permanent pavement repair with no repeat site visits. The road can be safely reopened to traffic within 30 minutes of the repair.
- ✓ **Less Noise and Disturbance:** Keyhole coring is faster, quieter, more precise and more environmentally friendly than conventional excavation. It generates no road spoil to dispose of, causes no damage to surrounding pavement, requires no temporary patching and is much less disturbing to the neighbors.
- ✓ **No Corner Cracks:** Keyhole cuts are circular which means there are no corners or corner pressure cracks to allow ground water penetration that undermines the roadbed and is the major cause of premature pavement failure.
- ✓ **Keyholes are Less Expensive and Last Longer:** Keyhole repairs are less damaging to the road and cost a fraction of what it costs to restore a conventional utility cut. These pavement savings can be applied elsewhere where they are needed. In the last 15 years more than 50,000 keyholes have been cored and reinstated in North American roads in tough urban climates – with ZERO failures.

## Keyhole Applications

Cast iron main joint repair • Sacrificial anode installation  
 Low pressure service cut offs • New service installation • Test holes (pot-holing)  
 Soil sampling (environmental) • Utility locates/Daylighting (HDD/SUE)  
 Valvebox replacement • Installation of meter guards and bollards  
 Main sectionalization • Any pavement/concrete coring • Utility pole installation