



UNIQUE PAVING MATERIALS

Cleveland, Ohio

Started in 1959

Unique is the oldest continuous cold mix producer in the USA.

Over 140 Bulk Locations of UPM Permanent Repair Material Bags of UPM and Pavement-Maintenance Preservation Products Available Nation-wide



The cold wet weather is setting records for many parts of the country

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It is becoming increasingly important to transportation agencies to gain public support for low cost pavement preservation treatments applied to roads while they are still in good condition versus heavy rehabilitation or full roadway reconstruction, which are applied to roads in poor condition.

Reference:

Performance Evaluation of Various
Rehabilitation and Preservation Treatments

Final – January 6, 2010

U.S. Department of Transportation

Federal Highway Administration

Office of Asset Management

HIAM-1

Washington DC 20590-0001

| Treatments | Description | Timing of Application, yrs | Distress Type | Extended Pavement Service, yrs | Cost/line Mile (2009\$) |
|------------|-------------|----------------------------|---------------|--------------------------------|-------------------------|
|------------|-------------|----------------------------|---------------|--------------------------------|-------------------------|

Minor Rehabilitation

| | | | | | |
|---------------------|---|---------|-----------------------------|---------|-----------------------|
| Thin Overlay | A HMA overlay with one lift of surface course generally with a thickness of 38 mm (1.5 in) or less | 4 to 24 | rutting; ride; and raveling | 3 to 23 | \$29,409 to \$249,699 |
| Chip Seal | A surface treatment in which the pavement is sprayed with asphalt (generally emulsified) and then immediately covered with aggregate and rolled. Chip seals are used primarily to seal the surface of a pavement with non load-associated cracks and to improve surface friction, although they also are commonly used as a wearing | 2 to 13 | cracking and raveling | 3 to 8 | \$6,732 to \$145,976 |

Selected Treatments Presented

Selecting the optimum process/product requires:

- **Research**
- **Experience**
- **Cooperation**

| | | | | | |
|---------------------------------|---|---------|---------------------------------------|--------|--|
| Hot in-Place Recycling | incompressible into the cracks and water into the underlying pavement. A process which consists of heating the surface with heat, mechanical material, mixing the material, adding virgin asphalt and aggregate (as required), and then replacing the pavement. | | | 3 to 8 | \$31,136 to \$130,383 |
| Integra Seal³ | \$19.75/5 gal (or 1gal/120ft ² sealer with Gilsonite for potholes) | | | | \$0.31/yd ² \$2,182 per lane mile |
| Ravel Check³ | Localized repair solution, not designed to penetrate oxidized asphalt, rejuvenate by returning maltenes/asphaltenes back to AC. Will lock loose aggregate, fill minor cracking and stop raveling. \$55/5gal, 90ft ² /gal or 450ft ² or \$1.10/yd ² | anytime | Cracking, oxidation, initial raveling | 3 to 5 | \$1.10/yd ² |

Major Rehabilitation/Repair

| | | | | | |
|------------------------|---|--|----------|--|-----------|
| UPM³ | Permanent Pothole Repair Material, Guaranteed to outlast surrounding pavement | | Potholes | | \$32-\$40 |
|------------------------|---|--|----------|--|-----------|

UNIQUE provides multiple BEST-IN-CLASS Preservation Rejuvenation and Repair Products.



Premium Permanent Road Repair Material- The Industry Standard.



SPM- Spec mix to meet specific customer performance needs.



Cold Pour crack filler: 70 % Solids, Latex enhanced asphalt emulsion



Environmentally friendly asphalt based sealer enhanced with Gilsonite.



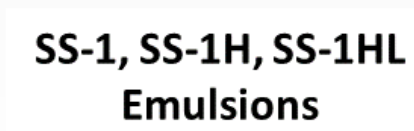
Specialty concrete patching materials exceeding industry standards in set time and strength.



Complete line of asphalt adhesion packages for all HMA applications



Asphalt surface preservative and rejuvenator, enhanced with Gilsonite.



Tacks and emulsions for general paving applications.



Various hand and motorized installation tools for both asphalt and concrete.

CONCRETE PRODUCTS

HPFS

- High Early Strength
- Freeze-Thaw Resistant
- Open to Foot Traffic in 1 hour, Vehicle Traffic in 2 hours



Water Stop

- Non-Shrink, Volume Stable
- 2-3 Minute Set Time
- User Friendly, Easy Clean-up



OHVR

- Self-curing
- From Featheredge to 4"
- Indoor and Outdoor Use



Flexicrete HP

- High Abrasion Resistance
- Superior Bonding Strength
- High Compressive, Flexural Strengths



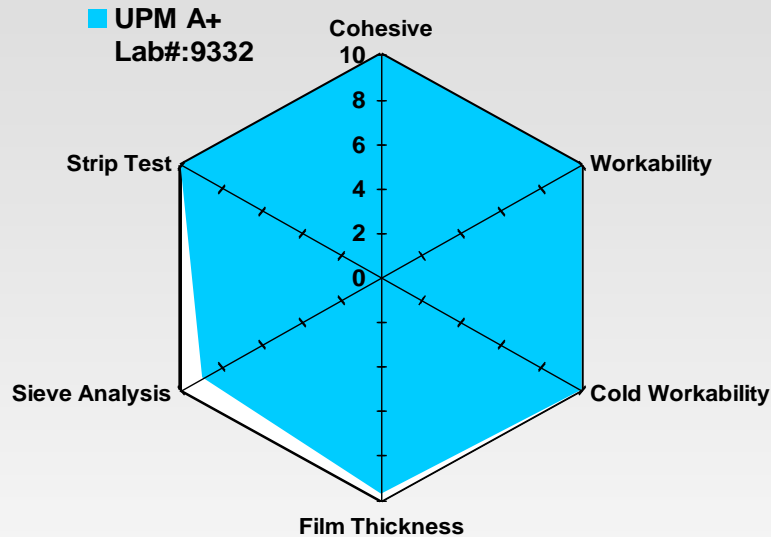
For more information, contact Josh Pemberton at 800-441-4880 ext. 241 or email us at concrete@uniquepavingmaterials.com

WHAT DOES QUALITY LOOK LIKE FOR COLD MIX?

Product rating is composed of six major performance parameters compared to an absolute standard:

1. Cohesiveness
2. Workability
3. Cold Workability
4. Film Thickness
5. Sieve Analysis
6. Strip Test

Parameters are weighted based on comparative field-lab correlation; creating a balanced rating, if achieved will guarantee superior field performance.



Cold-mix should be seasonally graded to guarantee workability in all weather.

All parameters are interdependent, overall field performance deteriorates rapidly if any one parameter fails.

Road damage in St. Louis suburb caused by water flowing under the road from adjacent hillside. Water is forced up through the surface. Multiple repair materials tested including hot mix, typically failing within 10 days.

UPM installed
Nov. 28, 2012.

**16 months later,
no further
repairs.**



UPM[®], Permanent Pavement Repair Material

Demonstrating UPM[®] in High Volume traffic and Heavy Loads.

Install Conditions: Wet Above 40°F

Pavement Conditions: Some cracking, mostly solid

Installation Date: February 13, 2012

Time Elapsed: 1 Year

Location: Vancouver, WA, Gas Station Entry

Contacts: Bart Shadbolt

UNIQUE maintains a national demonstration database containing hundreds of repairs.

UNIQUE is engineered to perform in wet cold weather.

Very wet conditions

Loose material removed



Installed in water



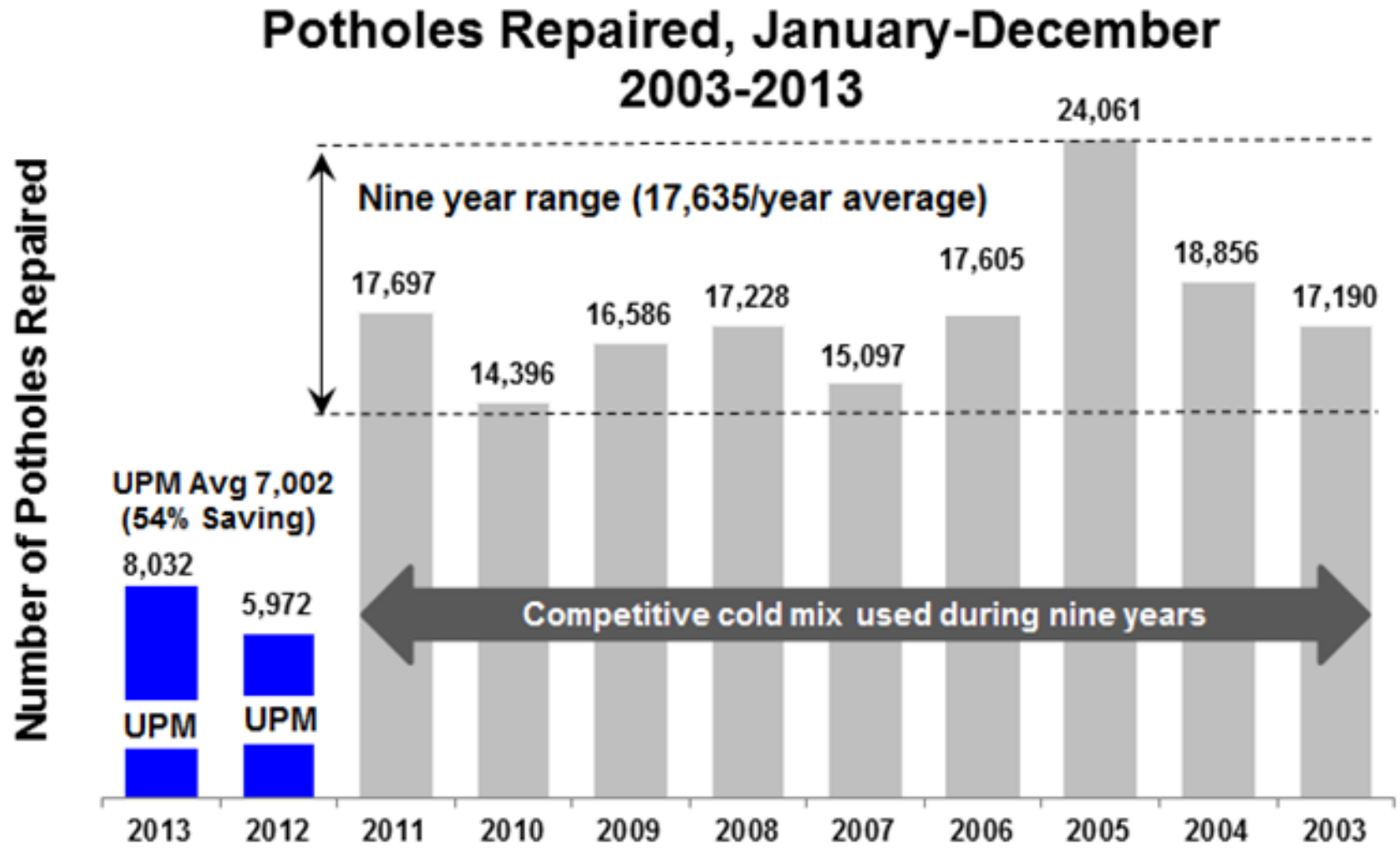
Finished Repair



One year later



Multi-Year Performance Demonstration Lexington, KY



The average savings to the City of Lexington is \$340,260, annually.

BEST in CLASS PRODUCTS and SERVICE

Best in Class Emulsion Based Crack Filler, 70% residue

Hot Mix Adhesive Promoter, Maximize TSR

Concrete Patch Material



UPM Green Best in Class Pothole Repair

UPM Best in Class Pothole Repair

Contact us at the UNIQUE booth of follow-up with your local Representative

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UNIQUE Paving Materials
Providing valuable products,
from valuable people,
to valuable customers.

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