



Full Depth Reclamation

**Considering total reconstruction?
Achieve higher performance at a
30% to 50% cost savings.**



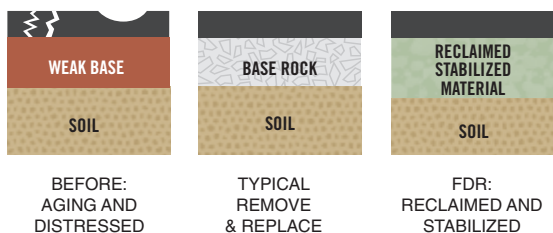
MAJOR ROADS
**RESIDENTIAL
STREETS**
PARKING LOTS
DEVELOPMENTS
AIRPORTS

We use your old road to build a better one, at a lower cost to you and the environment.

Less expensive now. And later.

When total roadway reconstruction seems to be the only option, it's time to consider Full Depth Reclamation (FDR) with Pavement Recycling Systems. The full AC and a pre-determined portion of the base, sub-base, and/or native soil is expertly pulverized and blended with carefully selected

FDR: STRUCTURALLY SUPERIOR WITH 30% TO 50% SAVINGS



stabilizing additives. Importing and exporting is cut down by a ratio of 40 truckloads to one. Once the new homogenous base is reshaped and compacted, it has superior structural properties. Not only do you save 30% to 50% in upfront costs versus new construction, your better-than-new road provides dramatic lifecycle savings, with reduced maintenance cost for years to come.

In-depth problems require in-depth solutions.

Severe pavement distress is often a symptom of deep-seated problems. Superficial band-aid maintenance gets costly and ineffective. You have overlays with reflective cracking. Heavy pothole patching. The underlying cause may be insufficient base strength and weak or expansive soils. Our FDR gets to the root of the problem by combining pulverization and soil stabilization technologies.

Testing: look before you leap.

During the pre-project evaluation and design phase, Pavement Recycling Systems (PRS) will work with your engineers to diagnose pavement, base and soil samples both on-site and in the laboratory. Bring us in for diagnostic engineering even before you spec out your project. We can help you save money and avoid surprises. Once the job is underway inspection and testing of key milestone factors such as R-value, expansion, depth and uniformity of mixing, moisture at curing, and compaction are performed.

The right agent makes all the difference.

PRS determines which stabilizing agent mix will be most effective for your project conditions. Bituminous agents, such as asphalt emulsion or foamed asphalt, achieve flexibility and high fatigue resistance. Chemical stabilization with lime reduces expansion and improves load-bearing, while Portland cement, increases compressive strength and reduces stress on the subgrade. Mechanical stabilizers like RAP are occasionally required for supplemental structural strength.

A competitive edge for contractors.

Subcontracting with PRS for FDR can make a contractor the highest-value, lowest-cost bidder on projects that involve pavement rebuilding. As owners and agencies become more aware of the advances in FDR and soil stabilization technologies, the demand for our FDR expertise will continue to grow.



1 Test and engineer

Thorough analysis of pavement, base and soil identifies problems such as low R-values, low unconfined compressive strength and expansion. Then we engineer an in-depth solution.

Green and government-approved.

By reclaiming in-place resources, our FDR is an ecologically positive solution that earns environmental kudos and credits. FDR processes meet the testing, design and construction standards of FAA, FHWA, ASTM, Caltrans, Greenbook, and local agencies in Riverside, Orange, Los Angeles, and Ventura Counties, among others.



Cut costly and disruptive export and import: from 40 trucks to 1

Typical remove-and-replace for one lane-mile: export 20 truckloads of excavated AC and base, importing 20 loads of new material. Total: 40 truckloads. FDR: just one load of stabilizing agent. Plus you might remove a couple loads of excess material. That's it.



2

Pulverize and blend

We pulverize and blend just the asphalt and base, or go down more deeply into the subgrade as necessary. Our operators and equipment accurately cut to the exact depth required.

3

Add stabilizing agent

We add the stabilizing agent to the blended asphalt and substrate to lift R-value, compressive strength and workability; and reduce expansion. Result: high structural value, low cost.

Advantages of FDR.

- Upfront cost savings: 30 – 50%
- Lifecycle cost savings: lower maintenance
- Environmental: recycles in-place material
- Uses value of existing pavement
- In-depth: eliminates cracking patterns
- Minimizes costly import/export
- Structural upgrade to base: R-Value, strength
- Shorter construction time, less disruption

Leading the way in stabilizing additive technology

We use chemical stabilizers like lime and cement; bituminous stabilizers like asphalt emulsion in different combinations to increase workability and structural value in specific conditions.



Recycling. Reclamation. Preservation.

Environmentally sound solutions for all phases of the pavement life curve.



If you have a pavement issue, talk to us. We take an integrated approach to pavement preservation, rehabilitation and construction. Offering a full range of environmentally sound solutions, we are the only company of our kind in California. Even if you only come to us for one type of application, it pays to work with a team that has our capabilities, resources and breadth of expertise. Our experts consult with you on the best technologies and applications for each job.

State-of-the-art recycling expertise

PRR is committed to the belief that recycling is the best long-term solution to the pavement portion of our nation's infrastructure challenges. Recycling and processing existing materials on-site provides an ecological alternative to traditional methods by minimizing export hauls, disposal costs and reducing truck traffic.

To improve the state of the art, we have developed and tested better recycling ideas and technologies, setting new performance standards and delivering cost savings at the same time. We are the best in the industry at what we do—and we do a lot:

- Full Depth Reclamation (FDR)
- Cold In-Place Recycling (CIR)
- Hot In-Place Recycling (HIR)
- Cold Central Plant Recycling (CCPR)
- Aggregate Recycling

Soil Stabilization Strategies

PRR is expert at converting in-place soils into structural foundations for pavement and building. Save on export and import by improving the structural properties of your project's existing soil. Other soil services include:

- Bio-remediation of contaminated soils
- Stabilization and solidification of soil contaminants
- Turning soils into pavement, on site

Cold Planing and Related Services

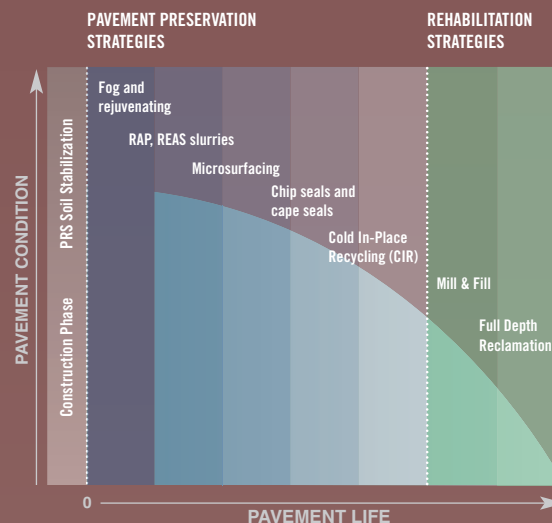
- Cold milling
- Micro milling
- Pulverizing asphalt in-place
- Trench planing / pulverizing
- Skid-steer mini planers
- Rumble strips
- Berm removal

Pavement Preservation

Pavement Coatings, the experts in pavement preservation since 1975, is a division of Pavement Recycling Systems. This puts PRR at the forefront in applying tried-and-true pavement preservation strategies as well as developing new systems that extend pavement life at lower cost. Services include:

- Fog and rejuvenating seal
- Conventional and premix REAS slurry seal
- Rubberized flex cape
- Pass® scrub seal
- RAP Slurry™
- Cape seals
- Micro Surfacing
- SAMIs
- Chip seals
- Other innovative products in development

PRR PRODUCTS FOR EVERY STAGE OF THE PAVEMENT LIFE CURVE



PAVEMENT RECYCLING SYSTEMS, Inc.

1-800-966-7774
714-826-3011
951-346-1800

Riverside: 951-682-1091
San Diego: 760-747-9979
Lancaster: 661-948-5599
Bakersfield: 661-833-2280
Reno: 775-209-3078

Pavement Recycling Systems subsidiaries:

Cold Milling Group

951-682-1091
Asphalt and Concrete Cold Milling, Roadway Excavation, Ground-In Rumble Strip, Micro Milling.

Pavement Restructuring Group

951-682-1091
FDR, Pulverization, Foamed Asphalt, Emulsion Stabilization.

Stabilization Solutions Group

951-682-1091
Soil Stabilization with Cement, Lime, Fly Ash, and Emulsion. Contaminated Soils.

Renew Pavement Group

951-682-1091
CIR, CCPR, HIR.

Reclaimed Aggregates, Inc.

951-787-8955
Concrete and Asphalt Recycling Centers. Recycled Aggregates and Pavements.

Pavement Coatings Company

714-826-3011
REAS, RAP Slurry, Type I and Type II Slurry and Microsurfacing.

We are employee-owned.

The quality of our work and customer service is second to none for a reason: All of our dedicated employees share ownership in PRR. We want our customers to keep coming back. And they do. Call us to discuss your next job.