Technical Support
Over 60 Scientists, Engineers, & Technicians
Trained in Federal, State, ASTM, AASHTO & Foreign Test Methods

Certified
Third-party compliance testing.
Research and development of pavement materials and products.

Laboratory Locations
- PRI HQ – Tampa, FL
- PRI Midwest
  - Munster, IN
  - Chicago, IL
- PRI Int’l – Cadiz, Spain
PRI does a comprehensive evaluation of binders to assess performance in both the field and in the laboratory. PRI also determines the optimum foundation for your mix.
Asphalt Binder Testing

Performance Grade
- Performance Grade M320 & M332
- Critical Cracking Temperature
- Delta Tc 20/40 hr
- Frequency Sweep
- Durability
- Elastic Recovery
- Master Curve
- Mix & Compaction Curves

Conventional
- Penetration Graded
- Viscosity Graded
- Distillations
- Oxidations

Modified Binders
- PMA’s / PMB’s
- Additives (PPA, GTR, Cross-Link, Resins) Extender Oils
- High/Low Shear Blending
- Fluorescence Microscopy
- Simulated Terminal Storage Stability
- Toughness & Tenacity
- Torsional Recovery
Supplemental Evaluations and Services

- Abson and Rotovap Recovery
- Colloidal Instability
- Corrosion Resistance
- Distillations
- Filler (TLA)
- Flash Points (COC, OMCC, Tag)
- Fraass Brittle Point
- Solubilities
  - (CS2, Toluene, TCE, Heptane, Xylene)
- Spot Test
- Thermal Stability
- Wax
- SARA Fractions
- $H_2S$
Crude Characterization Assessments

- Cutbacks
- Emulsions
- Encapsulants
- Industrial Applications
- Metal Coatings/Corrosions Resistance
- Paints and Coatings
- Paving Binders
- Roofing Fluxes
- Fuel Evaluations focus on Marine Fuels and specifically address pending environmental issues.
Asphalt Pavement Services

Solvent Extractions for Recovered Binder Testing:

- Asphalt Rubber Binders (ARB’s)
- Conventional (Viscosity and Penetration Grade)
- PG Plus
- Recycling Agents (RA Grades)
  - RAP & RAS
Pavement Services Performance Testing

- Dynamic Modulus and Flow
- APWS
- Beam Fatigue
- Bond Shear Strength
- $DC_n$
- Dynamic & Static Creep
- EAR’s
- Thermal Cracking
- Hamburg and APA Rut Analysis
- Moisture Sensitivity (TSR)
- Permeability
- Resilient Modulus
- Semi-Circular Bend ($I_{FIT} \& J_c$)
- Structural Number
- Tensile Properties (IDT)
- Texas Overlay
- $\Delta T_C$ (Thermal Cracking)
Latest Technological Equipment
The Asphalt Pavement Weathering System

Replicates environmental aging in an accelerated manner.
Simulated UV Exposure

- Simulates natural sunlight
  - UVA
  - UVB
  - Visible
  - Infrared radiation
- The use of specialty bulbs maintain a natural sunlight effect.
- Environmental Capabilities
  - Water Rate & Temp controlled
  - Runoff water collection or leachate determinations
- Flexibility of Specimen Morphology
SUSTAINABILITY
Recycling & upcycling of asphalt-based paving & roofing products are essential to our economy.

ENVIRONMENTAL IMPACT
Products containing recycled materials are not tested for their effects on the environment.

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PRI’s Analytical Lab coupled with our APW (Asphalt Pavement Weathering System) is a means to determine if environmental issues may develop in the products life-cycle.
Sustainability for Future Pavements

Recyclables
Additional products can be added:
- Plastics
- Elastomers
- Tire Rubber

Aggregates
Tests allow for the recycled use of:
- Recycled Asphalt Shingles (RAS)
- Recycled Asphalt Pavement (RAP)
- TR (Tire Rubber Additions)

Infrastructure
Benefits from Understanding Asphalts age:
- Reduced road repairs
- Saves time and fuel associated with road repair.
- Better utilization of tax dollars.
Additional Services and Offerings

- Consulting
- Intellectual Property Assistance
- Training
- Technical Literature
- Referee Testing
The PRI Validation program ensures that company products are tested, reviewed, and verified to pass under ISO/IEC Accreditation standards.

A signature certificate is registered to that product once tested and approved.
CONTACT US

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