High Performance, Thin Film Surface Treatments

2015 Alaska Asphalt Pavement Summit

November 9, 2015, Presented by, Brad Grose, Asphalt Systems, Inc.

ASPHALT SYSTEMS INC.™
ADVANCED PRESERVATION MATERIALS

A SUSTAINABLE SOLUTION
GreenCircle CERTIFIED
LIFE CYCLE ASSESMENT OPTIMIZED

Exploring the Possibilities of New Products and New Processes

Save Pavements, Time, Resources, and Money

ASPHALT SYSTEMS INC.™
ADVANCED PRESERVATION MATERIALS

A SUSTAINABLE SOLUTION
GreenCircle CERTIFIED
LIFE CYCLE ASSESMENT OPTIMIZED

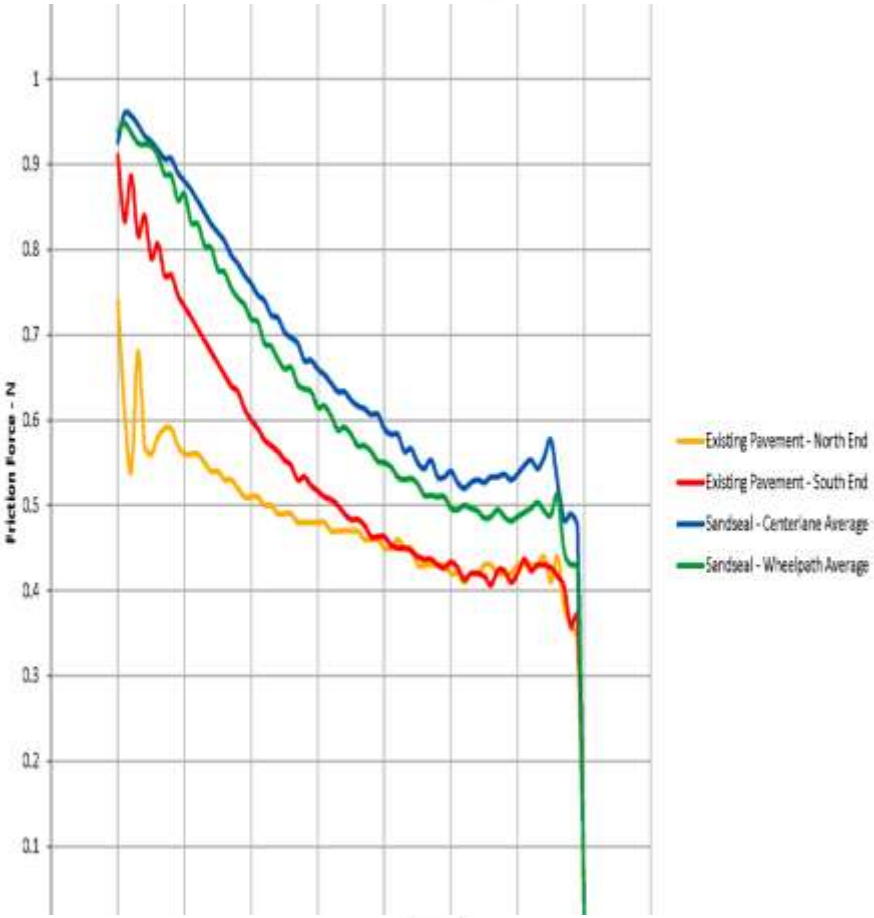
Presentation Focus and Objectives

- Describe some of the products produced and used across the US.
- Discuss the pavements selection process.
- Discuss some of the successes, both locally, in the US, and Internationally.

Products Available Across the Country

- Gilsonite Modified Sealers and Rejuvenators, GSB-88, GSB-78, GSB-Mod-R, GSB-Friction Seal.
- Rejuvenators, such as Reclamite, UDOT ERA Type-A generics.
- Polymer Modified Rejuvenating Products, such as PASS-QB, PMRE generics.
- Coal Tar Rejuvenators, such as Rejuvaseal, PDC.
- Polymer Modified Fog Seals, such as Plastic Seal, Acrylic Seal, and others.
- Other Products not listed, but available across the country.

Addressing Issues of the Past
Friction/Sand Seals for Mainline Roads & Airfields



ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Safety Does Not Have to Take a Back Seat

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Its One Pass and Easy

Friction Seal, Alaska

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Alaska DOT Glenn Hwy Friction Seal Application

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Pavements Selection

- Dense Graded Mixes, the most common pavement type.
- Shoulders, and especially those that have rumble strips on them.
- Open or Gap Graded Mixes, are great candidates for thin film treatments.
- Grooved Pavements, found mostly on Runways
- Construction Seals and Construction Joint Seals
- Troubled Pavements
- Raveling Pavements, especially those found on Airfields.

Dense Graded Mixes

ASPHALT SYSTEMS INC.™

Dense Grades Mixes

ASPHALT SYSTEMS INC.™

Shoulders, with, and without Rumble Strips

ASPHALT SYSTEMS INC.™

Shoulders

ASPHALT SYSTEMS INC.™

Rumble Strips on Shoulders and Center Line

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Open Graded Mixes Can Be Preserved, No Problem

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Failing at 13 Years, Now 20 Years old and in Service

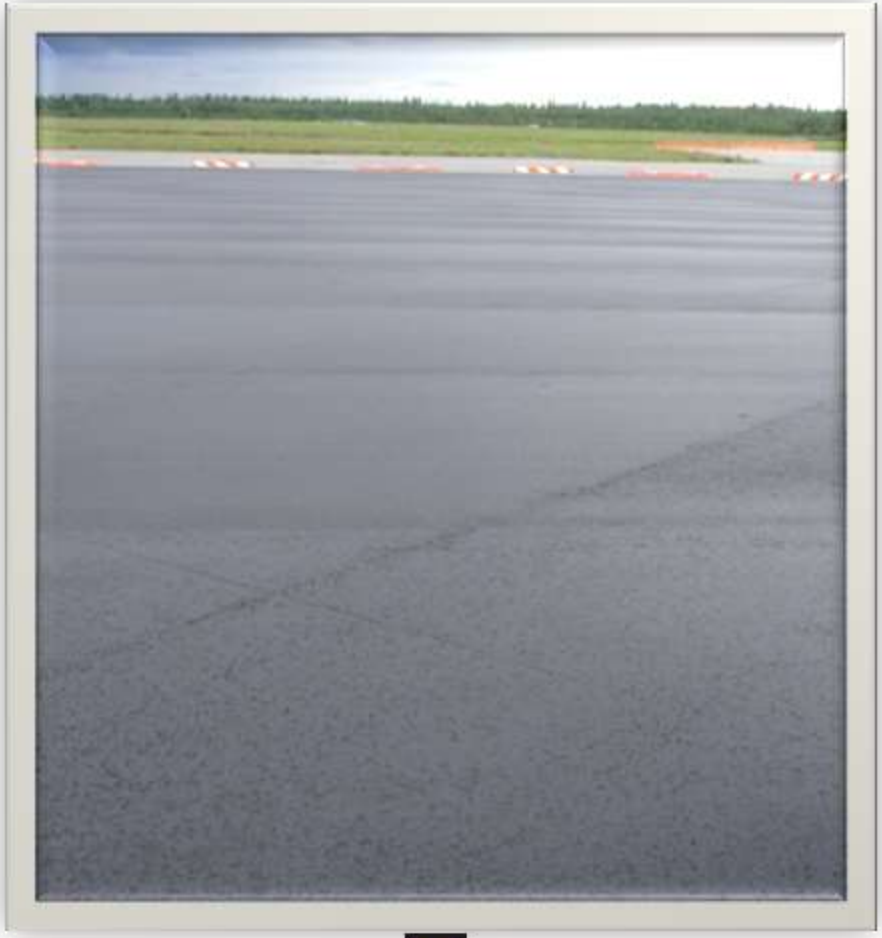
ASPHALT SYSTEMS INC.™

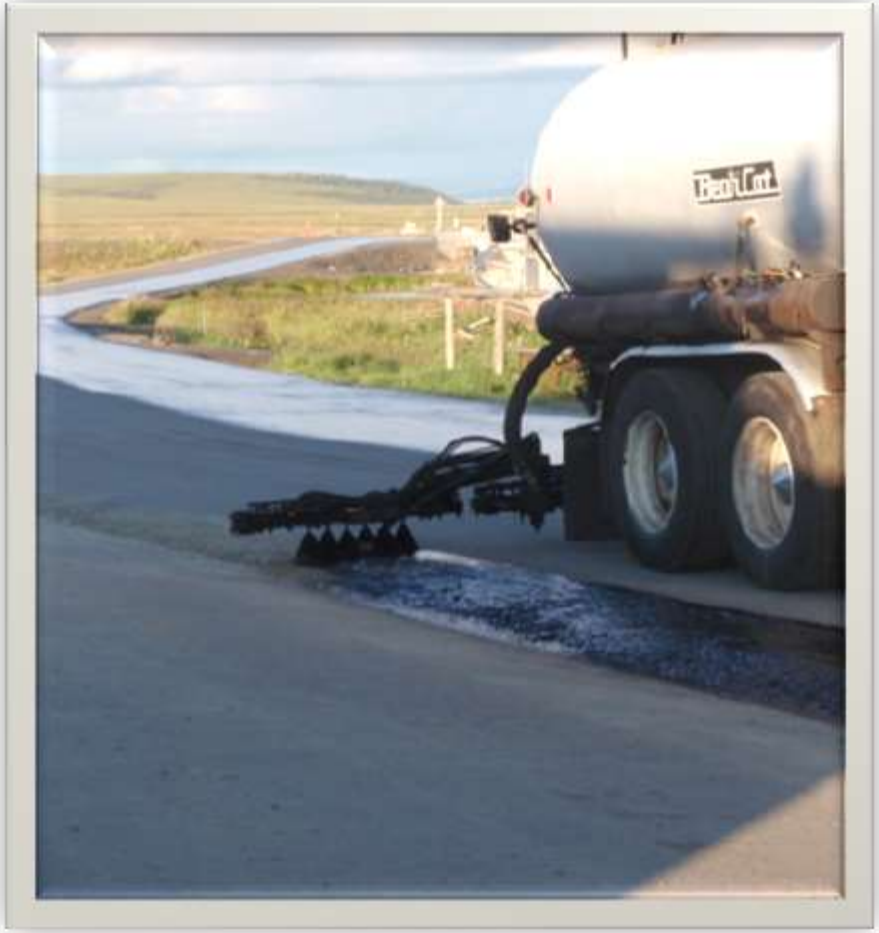
GreenCircle CERTIFIED

Grooved Airfield Pavements

ASPHALT SYSTEMS INC.™

Construction Seals





ASPHALT SYSTEMS INC.™

Construction Seals, and Construction Joints

ASPHALT SYSTEMS INC.™

Construction Joints Don't Have to Dictate Pavements Life Span

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Troubled Pavements

ASPHALT SYSTEMS INC.™

Troubled Pavements

ASPHALT SYSTEMS INC.™

Troubled Pavements

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Raveling Pavements, especially those on Airfields

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Raveling Pavements

ASPHALT SYSTEMS INC.™

Some Success Stories

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

23 Year Old Pavement 4 Treatments Later

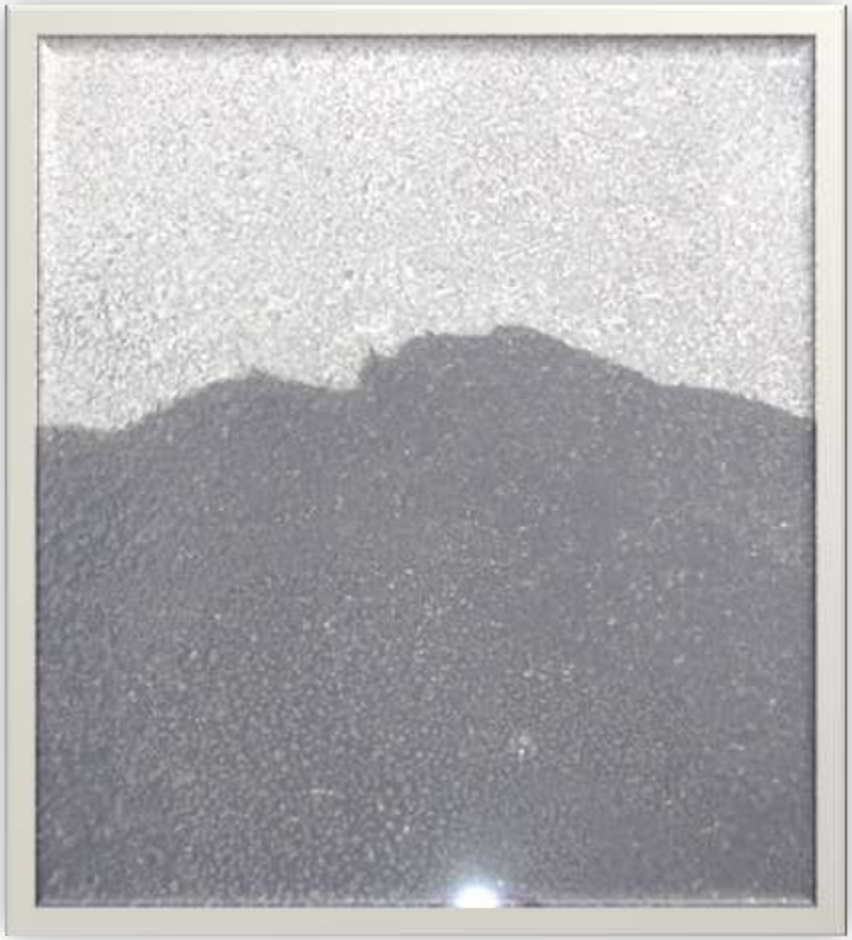
ASPHALT SYSTEMS INC.™

Palmer Alaska Ramp Treatment 9 Years Ago

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

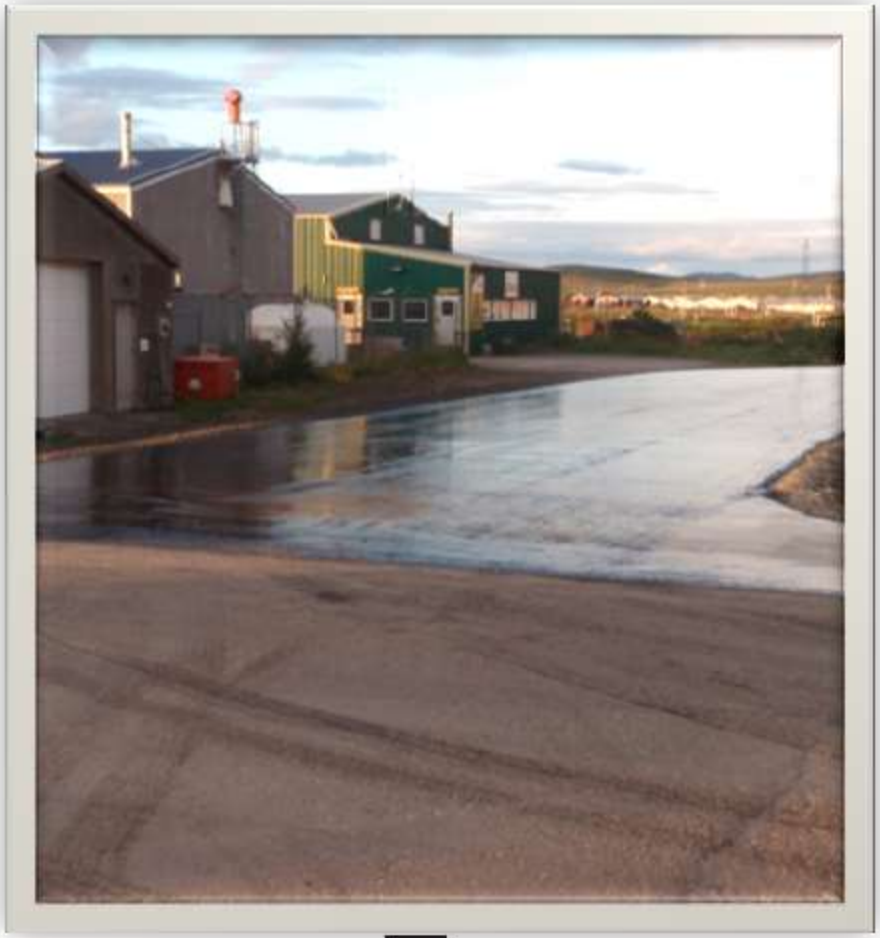
Palmer Alaska Airport. There is a Difference.

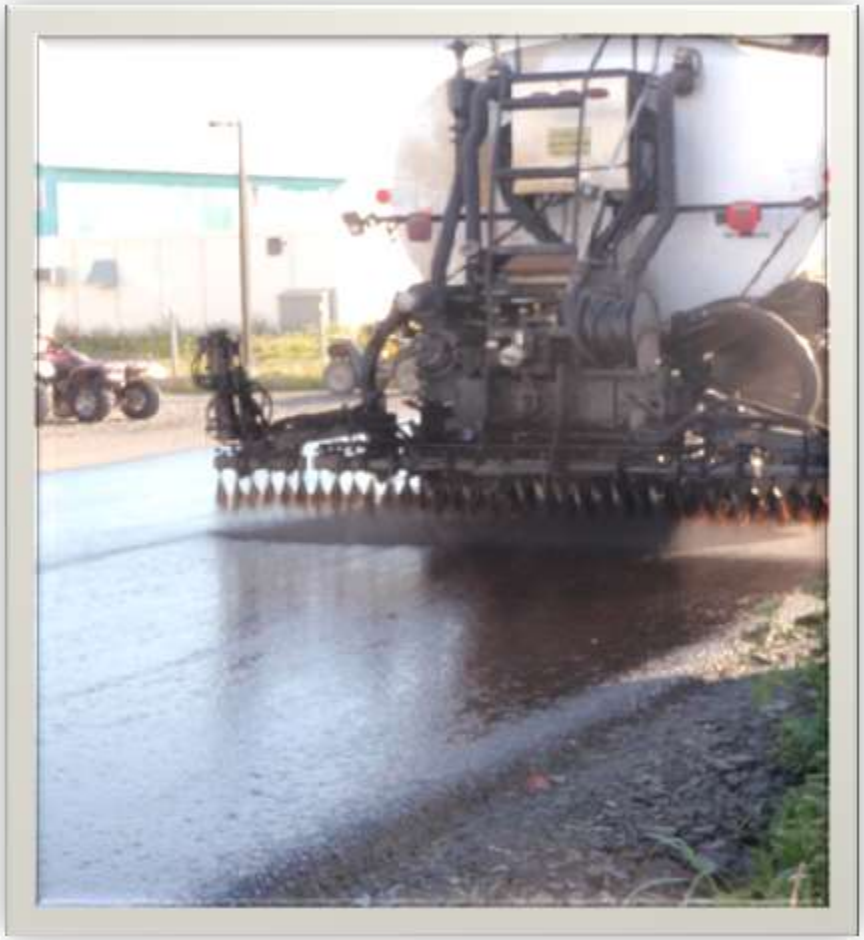


ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Unalakleet Alaska





ASPHALT SYSTEMS INC.™

Success 7,000 Miles Away

asi
ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Success in Tacoma WA, with their Sustainable Products Purchasing Policy.

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED

Thank You! Any Questions?

ASPHALT SYSTEMS INC.™

GreenCircle CERTIFIED