

Introduction Micro-Surfacing

Randy Terry St. Louis, Missouri September 28, 2006 Midwest Pavement Preservation Partnership

International Slurry Surfacing Association (ISSA)

 Represents Members from Around the World in <u>Slurry Systems</u> (Micro Surfacing & Slurry Seal)

Established in 1963

Slurry Systems usage in 36 Countries





Most Recent Event

September 6-8

Beijing International Convention Center



2006 ISSA 全球大会 暨国际沥青路面维修养护技术研讨会

2006 ISSA World Congress

International Seminar on Asphalt Pavement Maintenance Technologies



2006 ISSA 全球大会 暨国际沥青路面维修养护技术研讨会





GURFACING

PSSOCIATIO





Global Lead Markets

United States - 200 million m² European Union - 100 million m²

China - 30 million m²



Notable Global Markets

- Sustained tradition
 Thailand
 - Canada
 - South Africa
- Potential fast growing markets
 Russia
 - Brazil



European Union Market

Total Size ~ 100 million m²
 France : 40 000 000 m2
 Spain : about 20 000 000 m2
 Germany : about 6 000 000 m2
 Other key countries: UK, Italy,
 Growth markets: France, Eastern Europe



EU Trends: Micro for High Speed Roads

- Successfully used on German Autobahns for 20 years
- Speeds > 160 km/hr
- Average Daily Traffic > 70,000
- High Axle Weight Trucks





UNITED STATES Trends:

- Steady growth
- Market shift from Slurry Seal → Micro-Surfacing
- Shift toward night work
- Increased use of continuous production pavers
- Increase awareness with Pavement Preservation Movement
- Growing focus on skid correction / surface friction







Bangkok Expressway

King Rama IX Bridge

South Africa



City of Kazan, Tartastan



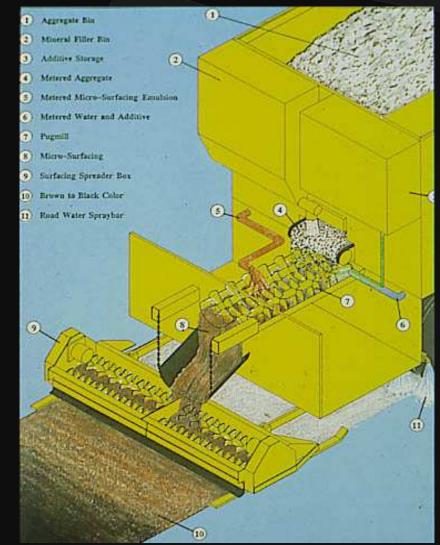
What is Micro Surfacing?

Polymer-modified cold-mix paving system used for:

- Filling Wheel-Path Rutting
- Restoring and Enhancing Surface Friction
- Minor Correction in Ride-Quality / Roughness
- Sealing and Protecting Existing Asphalt Pavements
- Cost Effectively Extending Pavement Life
- Maintaining Pavements in Good Condition



What is Micro Surfacing?



<u>Cold Paving Mixture</u> <u>Consisting of:</u>

- Polymer Modified Asphalt
 Emulsion
- Quality Crushed Aggregate
- Mineral Filler (Cement)
- Mix Control Additive
- Mix Water

Laboratory Designed Mixture

A-143 Guidelines



What is Micro Surfacing?



<image>

<u>Construction</u> <u>Process</u>







What is Micro Surfacing?



Ruts in Wheelpaths RUTS 1/2" & OVER MUST USE THE RUT BOX

Rut-Filling Course











What is Micro Surfacing?



Surface Course

Applications range from 3/16" (15 lbs.) to ½" (40 lbs.) per square yard.

Macro texture and friction properties are determined by aggregate size and finishing technique.

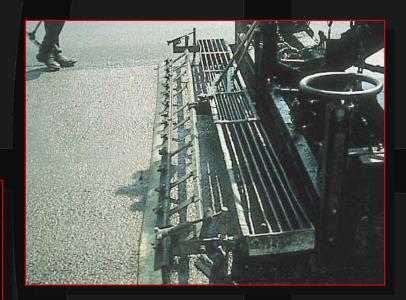
Premium hard aggregates are commonly used to provide long-lasting high friction properties



What is Micro Surfacing?



Surface Course





High Quality Wearing Surface



What is Micro Surfacing?



<u>High Quality</u> Pavement Preservation <u>Treatment</u>











Upcoming Events Slurry Systems Workshop Jan. 30 – Feb. 2, 2007

2007 AEMA-ARRA-ISSA

Joint Annual Meeting February 14-17

Bonita Springs, Florida

THANK YOU !

SSOCIA

For more information please visit www.slurry.org