Micro Surfacing

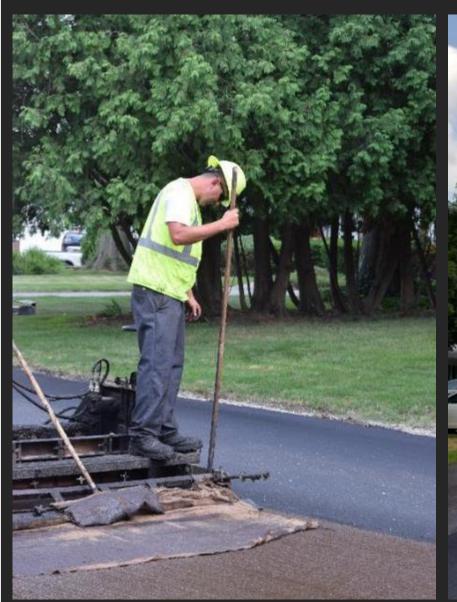














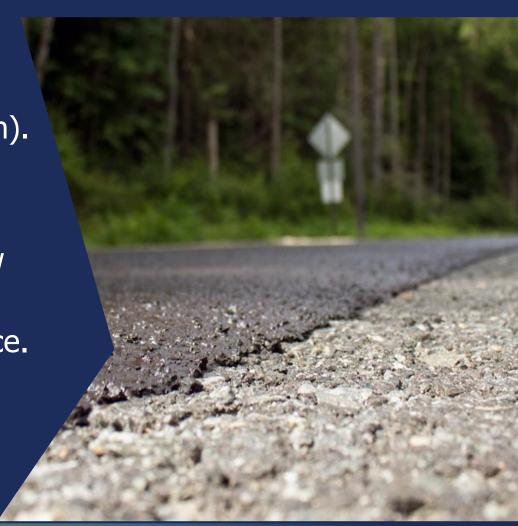
Micro Surfacing

• High quality wearing surface (created for use on Autobahn).

Excellent skid-resistant properties.

 Fast set and cure times allow traffic to return quickly.

Provides smooth black surface.



Micro Surfacing

- Night-time placement.
- Resists rutting and shoving.
- Seal cracks prior to treatment.
- Long-lasting durability –
 increased service life of 8-12
 years good condition, 5-7 years
 fair condition.
- Can be warranted.



Application and Versatility

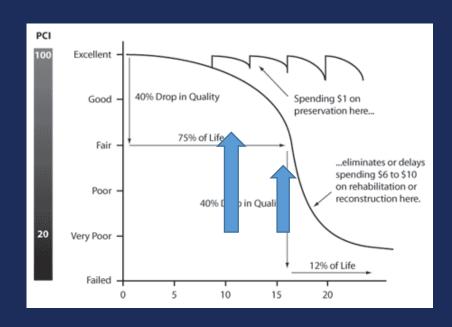
- One-step construction process.
- Stand alone Single or multiple courses.
- Interlayer top or bottom layer.
- Rut filling or use as leveling course.
- Fill corrugations, rumble strips or other voids in underlying roadway.
- Corrective application for moderate flushing or bleeding pavements.



Project Selection

- PASER ratings
- Best performance placed higher on deterioration curve.
- Oxidized asphalt pavements.
- Good drainage.
- Previously treated pavements.
- All types of roads and traffic volumes.

Asphalt Aging Curve



Project Selection



Alligator Cracks: A brittle area of pavement that resembles alligator

skin.

Cause: Stress in the asphalt or sub base. Repair: Removal of deteriorated asphalt and

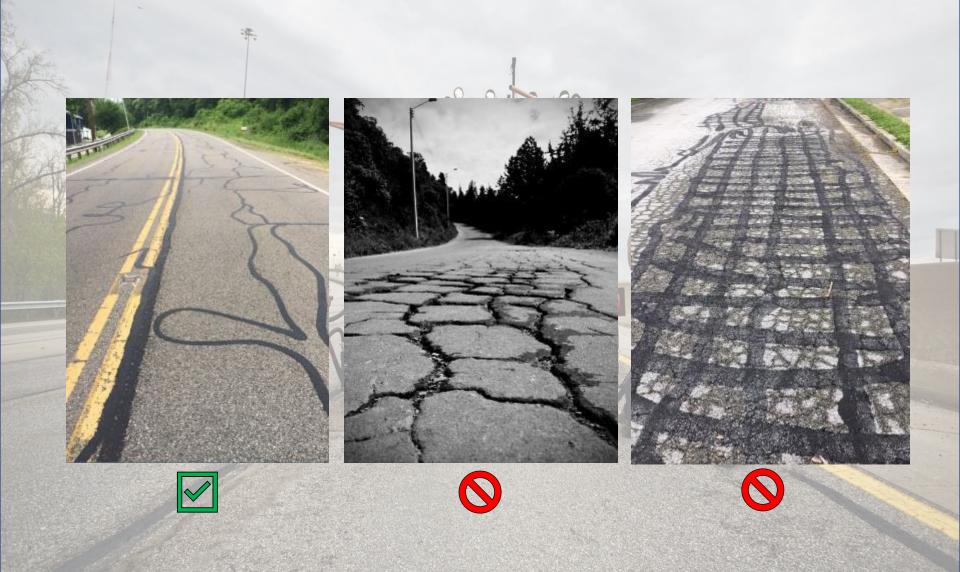
possibly removal of sub base.

Prevention: Proper pavement/sub base installation. Timely crack filling or a pavement maintenance

program.



Micro Surfacing Candidates

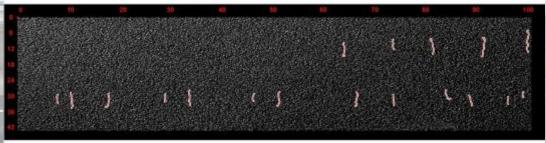


On top of Traditional Micro Surfacing benefits, you get:

- Delayed reflective cracking
- Better cold-weather aggregate retention
- · Improved self healing



BEFORE TREATMENT



1 YEAR AFTER TREATMENT

Soft-binder Fiberized Micro

RAP Micro Surfacing





RAP in Preventive Maintenance

- MRPA contractors involved in RAP chip seal and micro surfacing tests to find alternatives to virgin aggregates.
- Projects are now reaching 5-year point for evaluation.
- ODOT/FHWA Study with Ohio State University, August 2021
 - Ashland County, Ohio 100% RAP Chip Seal with CRS2P
 - City of Lancaster, RAP Micro Surfacing



Improving Safety – Added Benefit of CPM

- Micro surfacing is a highfriction surface treatment.
- Higher friction control helps motorists maintain control in both dry and wet driving conditions.
- Cost is substantially less than resins and bauxite used in HFST.





