



MICROSURFACING

District 12
Pike County
October 2020

Some challenges we faced!

- 
- Calibrated
 - 1000 ft Test Strip
 - Anticipated 4 to 5 days to complete

First day of production!

- Great!
- Material looked good!
- No Issues!



2nd Day
Paver Leaking
Hydraulic fluid..





Days 3,4, and 5 – Still working on paver and ordering parts.

Decided to Fog Seal...



Not our project

So....after fog sealing for about 10 minutes....

A fitting and rings blew out..
Spraying 25 ft high..





Day 6

Day 6 - Attempted to microsurface (in the lot) - blew a water hose fitting.....hydraulic fluid still leaking...





Day 6

At this point



Workday 7

- Replaced 4 hydraulic hoses
- Worked on Distributor

The equipment
is supposed to
be fixed!

Ready to
Microsurface!



NOTE: Workday 8.....Calendar day 10!

- Morning – 3 hours heating emulsion (Low temp was 53 deg.)



3 hours later...



- Finally filled support trucks...Off to Microsurface!

- Emulsion late
- Emulsion stopped - 60 ft.





So, they're torching the emulsion screen...

- Emulsion started late...
- And stopped in about 60 ft.

AND,
It happened Again...



Just cleaned that morning





Emulsion screen clogged!



After Torching and cleaning...

Emulsion entering the mix very late...
And the emulsion stopping in about 60 ft.

Continued to happen.. 3 or 4 times in 300 ft!

Know when to STOP!

With having emulsion problems...



Stopped the contractor
and took emulsion samples

After being stopped..



- Foreman looked into frac tank
- Emulsion seperated

One part: Solid asphalt material

Another part: Thin gray liquid





Workday 8, Calendar day 10!

Not circulated
or heated



October 27th

- New emulsion
- Directly off tanker
- Workday 11 – Calendar day 15!
- 2nd good day of production!!



Next 3 days...

28th, 29th, and 30th

No work due to rain

Stopped for the year!

October 31st

Workday 12---Calendar day 19...

DWR...speaks for itself

- 9:00am - Tack distributor busted air hose
- 10:45 – Fog seal distributor busted air hose
- 11:00 – starting microsurfacing....immediately emulsion line blew off!
(covering part of road and shoulder)
- After 3 attempts - 60 ft...Contractor's Project Engineer shut down project for the year! Equipment and material issues.

Less than 50% microsurfacing done..


To be continued.....



Let's try this again!

May 2021

The Next Spring!



May 5th 2021

Workday – 13

- Calibrated all materials



Workday 14

Emulsion screen
stopped up again!

Cleaned emulsion screen out

A few hours later....What happened?

Another Hydraulic hose busted!

- Cement
- Pressure washed
- Fixed the hose



Workday 15 – Rain day

Next day – Workday 16

Water pump shaft broke

Then Guess What?

Emulsion separated again
(3 days after calibration)



May 9th
Workday 17

- Cleaning all equipment and hoses.





May 10th — Workday 18

Changed emulsion suppliers!! 2nd time emulsion separated.

May 11th

Workday 19

- Attempted to fog seal



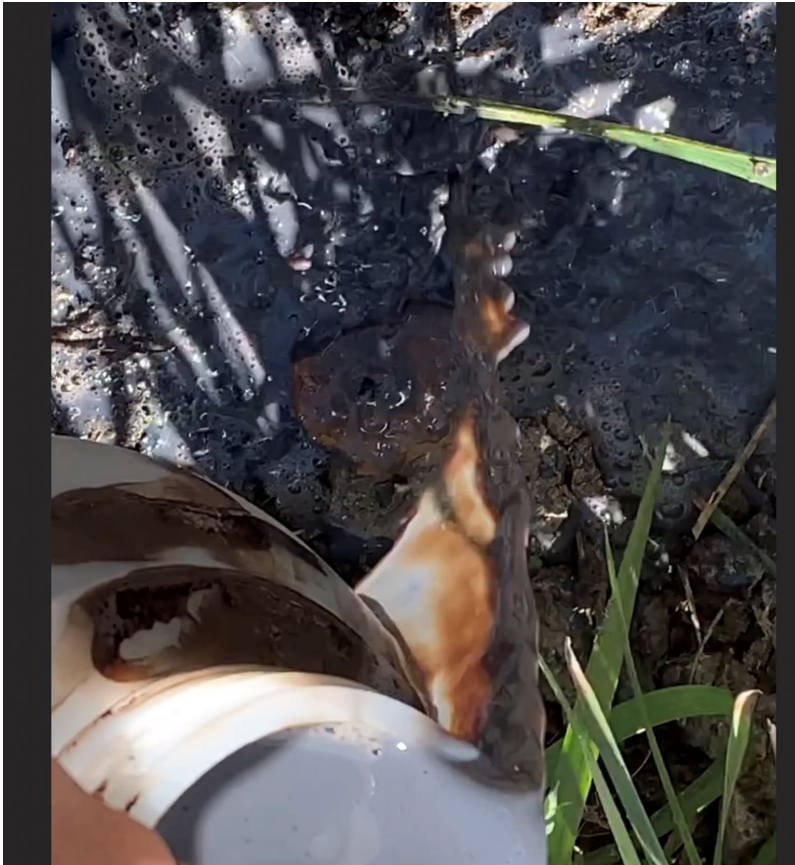




May 14th Workday 22!!

Finally
Finished
Microsurfacing!!

Anticipated 4 to 5 days



My 2nd time microsurfacing..
Never call me again?

Other section office and other branch

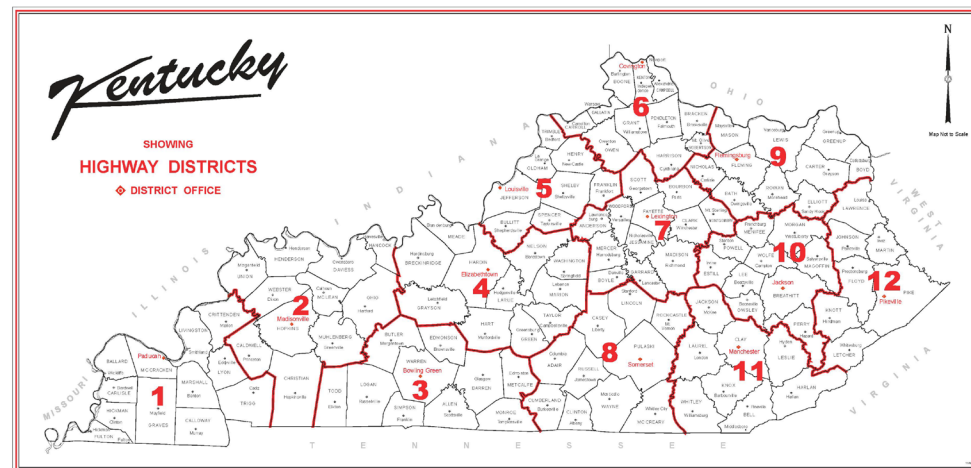
Not all projects have problems...

- October 18th, 2018
- 20 deg. colder
- Microsurfaced 2.6 mile – 2 days (5 hours a day)



A few things I learned...

- Problems do occur!
- Know when to STOP!!!
- We don't have to be material experts!
- We don't have to be equipment experts!
- Watch for signs!
- Phone a friend! Call the experts! Get others involved!





THE END!

Thanks for Listening!!