New York State Local Technical Assistance Program

Selecting the Right Pavement Preservation: Roads in



David P. Orr, P.E.

We will be getting answers @ www.pollEv.com/DavidOrrPE or download the **Poll Everywhere** app





Department of Transportation

Local Technical Assistance Program



Text DAVIDORRPE to 22333 once to join

I work for:

Local Government

State

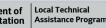
FHWA

Consultant

Contractor

The Weekend















Pavement Preservation

Right Treatment

Right Place

✓ Right Time







- O Do nothing
 - Drainage maintenance
 - Crack repairs
 - Patching
 - Area repairs
 - Wearing courses
 - Y Overlays
 - Recycling
 - Reclamation
 - Reconstruction







The Right Treatment

- Let the road tell you what needs to be done
 - Fix the disease,NOT the symptoms



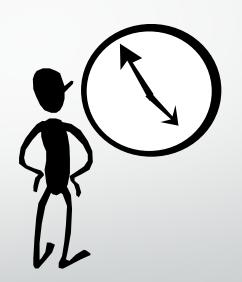






Why Roads Fail Prematurely

- Design
- Construction
- Materials
- Preservation











Recycling fixes the base?

- True
- False





Recycling fixes the base?

True

False







Recycling fixes the base?







() Recycling

- Cold in-place
- () Hot in-place
- Cold stockpiled
- () Heater-Scarifier









Calcium chloride stabilization:

- Reduces the fines %
- Reduces the frost susceptibility
- Reduces the fines %& the frost susceptibility







Calcium chloride stabilization:

Reduces the fines %

Reduces the frost susceptibility

Reduces the fines % & the frost susceptibility





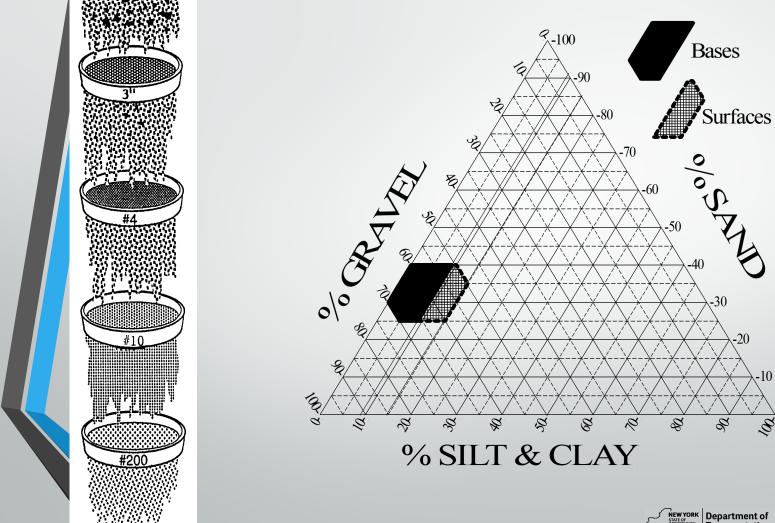


Calcium chloride stabilization:

✓ Reduces the frost susceptibility













GENESEE COUNTY .- Town Road in Town of Pavilion,



- Pulverization
- Mechanical stabilization
- Chemical stabilization
 - Calcium chloride
 - Cement
 - Lime
- Bituminous stabilization
 - Emulsion
 - Foamed asphalt
- Combination

Stabilization























Doing nothing is a good maintenance

technique?

- True
- False





Doing nothing is a good maintenance technique

True

False









Doing nothing is a good maintenance

technique?







ODoing Nothing

- S Easy
- Cheap
- Sood roads
- Bad roads











The worker in the hole is?

- Obviously not a supervisor
- An OSHA inspector
- Not following good safety practices







The worker in the hole is:

Obviously not a supervisor

An OSHA inspector

Not following good safety practices





Pavement Preservation Quiz

The worker in the hole is?

✓ Not following good safety practices







**Total reconstruction

- Very expensive
- * May be only option
- Rrand new road when done









811 must be called before?

- Before any work
- Before using powered equipment that will dig
- After hitting a utility line
- To report a non-emergency

811





811 must be called before:

Before any work

Before using powered equipment that will dig into the ground

After hitting a utility line

To report a non-emergency





811 must be called before?

✓ Before using powered equipment that will dig

811











The 3 most important things to remember when maintaining a road are?





The 3 most important things to remember when maintaining a road are?



Pavement Preservation Quiz

The 3 most important things to remember when maintaining a road are?

- Drainage
- Drainage
- Drainage









Sealing is used for cracks that are non-working?

- True
- False





Sealing is used for cracks that are non-working

True

False







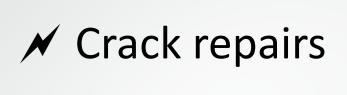


Sealing is used for cracks that are non-working?

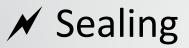
















Flush-Fill

Overband

Reservoir













The most cost-effective patching technique is?

- Throw & go
- Throw & roll
- Semi-permanent
- Spray patch







The most cost-effective patching technique is:

Throw & go

Throw & roll

Semi-permanent

Spray patch





Pavement Preservation Quiz

The most cost-effective patching technique is?

- ✓ Throw & roll
- ✓ Semi-permanent
- ✓ Spray patch





Throw & go







Patching



- Throw and Roll
- Semi-permanent
- Spray patch











All wearing courses (surface treatments)?

- Waterproof the pavement
- Restore skid resistance
- Restore oxidized surface
- True & level minor ruts







All wearing courses (surface treatments): (allow multiple replies)

Waterproof the pavement

Restore skid resistance

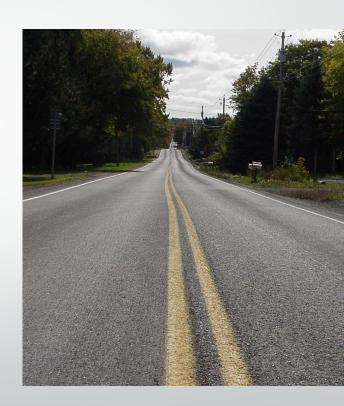
Restore oxidized surface

True & level minor ruts



All wearing courses (surface treatments)?

- ✓ Waterproof the pavement
- ✓ Restore skid resistance
- ✓ Restore oxidized surface
- **True & level minor ruts**







Wearing Courses



| - | | |
|---|----------|------|
| | Chip | seal |
| | <u> </u> | |

- Slurry seal
- Micropave
- NovaChip
- Thin overlay

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The emulsion is brown?

- Before it breaks
- Because it is a bad photo
- Because the stone is brown







The emulsion is brown:

Before it breaks

Because it is a bad photo

Because the stone is brown





Pavement Preservation Quiz

The emulsion is brown?



Before it breaks





Pavement Preservation Quiz









Superintendent

Which is not a cause of pavement distress:

- Traffic
- Temperature
- Excess Moisture
- Age
- Possums







Which is not a cause of pavement distress:

Traffic

Temperature

Excess Moisture

Age

Possums







Pavement Preservation Quiz

Which is not a cause of pavement distress:

- Traffic
- Temperature
- Moisture
- Age
- **✓** Possums









Fix the cause of the distress, not the effect.



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What is the best pavement preservation technique?







What is the best pavement preservation technique?







What is the best pavement preservation technique?







FRANK AND ERNEST BOB THAVES







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