



NCDOT Pavement Preservation Bulletin Materials and Tests Unit

Combination Treatments and a Tribute

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Why use a Combination Treatment?

Pavement Preservation treatments like Crack Seal, Chip Seal, and Micro Surfacing provide unique benefits:

- **Crack Seal** fills and seals cracks from water and inert material.
- **Chip Seal** provides a flexible, full-width sealant that protects and preserves the underlying surface.
- **Micro Surfacing** provides a stiffer, full width sealant that protects the underlying surface with a smoother texture than Chip Seal.

However, when these treatments are used together, their longevity is extended by multiple years!

Cape Seal: Chip Seal and Micro Surfacing

Originating in Cape Town, South Africa, Cape Seals are a robust Pavement Preservation option that provides a flexible, crack retarding layer and a dark, smooth riding surface. Increased longevity and traffic bearing compared to a standalone Chip Seal.

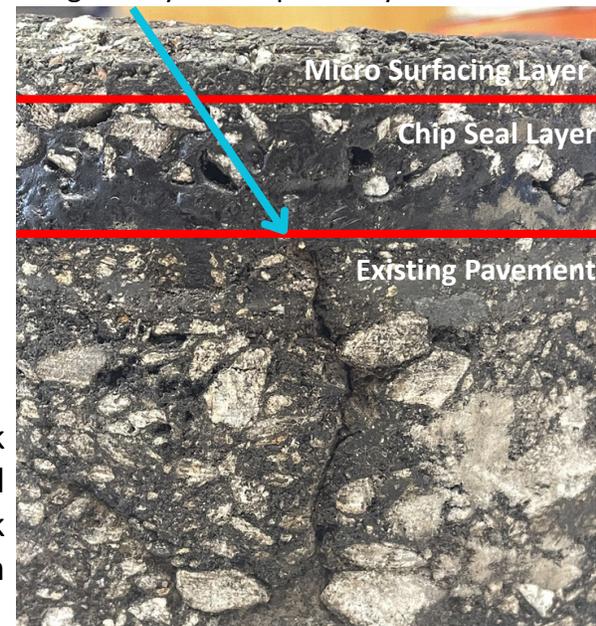
Crack Seal and Micro

Micro Surfacing performance is enhanced by a proper crack treatment. Crack Seal slows the reflection of existing cracks through the Micro Surfacing, reducing water penetration and debris buildup, which increases the longevity of your pavement.

Crack Seal and Chip Seal

Chip Seals can also be enhanced when used in tandem with Crack Seal. Division 6 uses this proactive approach: crack seal, followed by a Double Chip Seal 1-2 years later. This addresses each crack with a sealant, while also sealing and protecting the entire width of the road.

Pictured below: **Cape Seal** core from a Division 11 route. Propagation of the crack is mitigated by the Chip Seal layer.

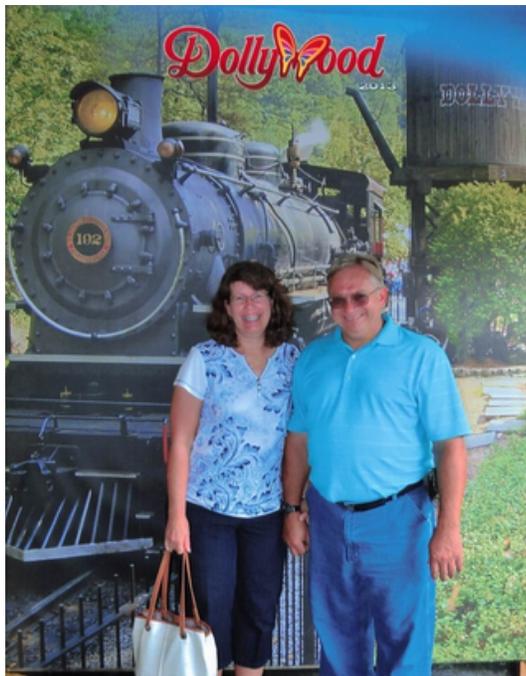


A Tribute to Ronnie Brigmon

A longtime member of our Pavement Preservation Team, Ronnie Brigmon, passed away in February. Ronnie was 67. He was a lifelong resident of Buncombe County. Ronnie was active in his church, Dillingham Presbyterian, and loved fishing. Ronnie was also a licensed surveyor by the North Carolina Board of Engineers and Licensed Surveyors.

Ronnie retired from NCDOT with 30+ years of faithful service, including time in Construction and Road Oil in Division 13. He worked with us at Materials and Tests as a Pavement Preservation Technician for nearly a decade. Ronnie was passionate about Chip Seals and Pavement Preservation. Ronnie believed in doing what was good and right, whether that was enforcing the Spec Book or caring for his family. He leaves behind a professional and personal legacy that will live on through those fortunate enough to know him.

Ronnie, you will be missed.



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