



BLACKLIDGE
PERFORM

UltraArmorTM

The Ultimate Spray-Applied Asphalt
Emulsion for Pavement Preservation

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UltraArmor™ Overview

Blacklidge's **UltraArmor™** is a high-performance, fast setting, and non-tracking fog seal emulsion technology developed primarily to assist and improve pavement maintenance programs. This product is designed to preserve chip seal surfaces, typical hot mix asphalt (HMA) surfaces, open-graded friction courses (OGFCs), and engineered to deliver improved abrasion resistance and longer service life than a typical fog seal. UltraArmor is a very compelling addition that assists in pavement preservation and maintenance programs' efficiency and effectiveness.

Industry Need

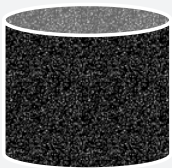
As asphalt pavements age, surfaces appear less black due to oxidation and minor surface cracks begin to form. This aging process can be excelled in permeable pavements (such as OGFC), leading to raveling and weathering damage. In some HMA pavements, raveling/weathering may also occur in areas with poor compaction or mixed segregation.

There are other pavement preservation techniques, such as chip seals, that similarly experience damage. As the asphalt residue on a chip seal ages, the bond between the aggregate surface and asphalt weakens, leading to unsafe road conditions due to loose aggregates.

Blacklidge Solution

Blacklidge's UltraArmor provides a non-tracking protective seal coat that reinforces OGFC, Hot Mix Asphalt (HMA), and chip-seal surfaces. The protective coating reduces the damaging effects of UV exposure, oxidation, and moisture intrusion. The high-performance asphalt emulsion fog seal utilizes fast-setting technology that doesn't track. UltraArmor can be applied to pre-existing asphalt pavements to enhance roadway appearance and protect roads, making them safer and longer-lasting.

Application

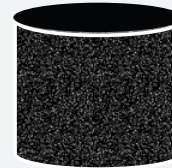


Before Application

Existing pavement has adequate structural capacity with minor surface cracks, oxidation and, in some cases, segregation/raveling.

During Application

Apply UltraArmor heated with circulation and allow to cure between 30 to 60 minutes depending on application.



After Application

UltraArmor adds a protective asphalt layer to existing pavement surfaces to seal minor cracks/surface voids while improving the appearance and extending the service life of the road.

Key Benefits of UltraArmor™

- Apply using conventional distributors
- Quick set time (20 to 30 minutes depending on climate conditions)
- Trackless within minutes of application
- Gives a new blacktop look to older roadways
- Water-resistant after set
- Protects from moisture intrusion and oxidation damage
- Seals pre-existing minor cracks



Value:

Performance

- Does not wash off the surface after curing
- More resistant to abrasion than a commodity product

Sustainability

- Helps roads stay in good condition by sealing the surface from oxidation
- Keeps chip seal aggregates in place longer
- When road markings are applied over UltraArmor, they are more visible and enhance road safety

Constructability

- Does not require any special equipment or training for application

Versatility

- Can be applied on almost any pavement surface that needs to be preserved and enhances blacktop

Key Application Areas



Aged Roads



Chip Seal Roads



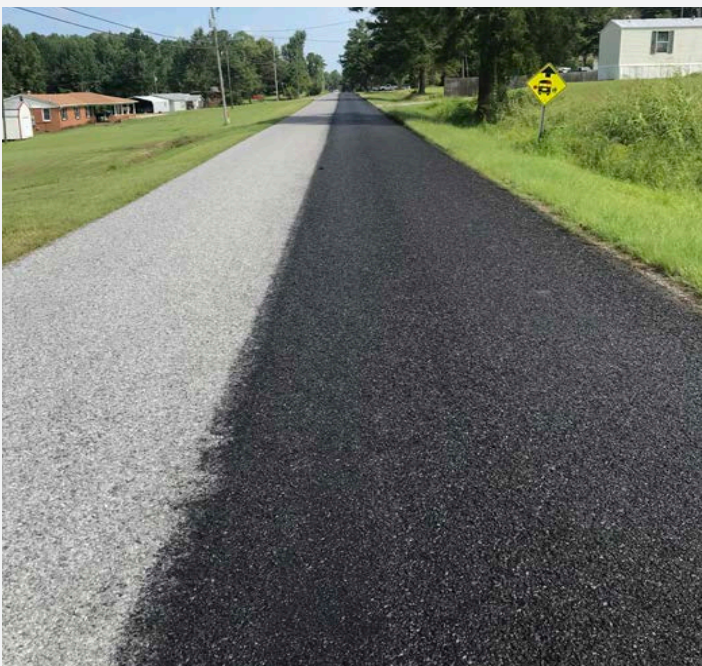
Fog Seal Roads



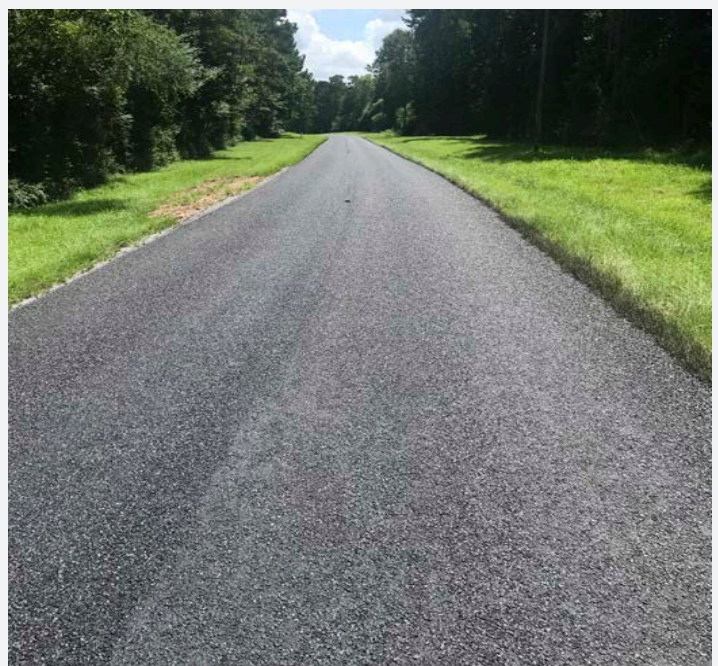
Parking Lots



Subdivision Roads



Jasper County - Comparison of Before & After Application



Jones County - One Day After Application



Performance. Reliability.®

Driven to perform, Blacklidge develops breakthrough products that benefit customers as well as end users.

Apply UltraArmor as part of a routine maintenance program to extend the life of your pavement investment.

At Blacklidge, we help you build **durable, safe and smooth roads** with cutting-edge, quality products that ensure your projects are completed on time and on budget.

With Blacklidge, it's always the better road.

Contact us to learn more about our innovative products, including UltraArmor™.

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BLACKLIDGE®

PERFORMANCE.
RELIABILITY.®