

Protection that can handle  
the stresses of the road

# UltraWear™

An award-winning solution for  
long-lasting, ultrathin overlays



SULLY-MILLER  
CONTRACTING Co.

# UltraWear™

Under the stresses of traffic and the environment, pavements deteriorate over time. Fatigue, oxidative aging and thermal cycling cause micro cracks to develop in pavement surfaces. These micro cracks eventually widen, allowing moisture to infiltrate the roadway, accelerating the deterioration of the pavement and its base. The combination of moisture and traffic continuously widen the cracks, causing potholes and eventually total base and pavement failure. UltraWear™ is a thick emulsion membrane applied to the pavement surface which is immediately covered with an ultrathin lift of high performance hot mix asphalt, all in a single pass with a purpose-built machine. An ultra-thin lift of high quality UltraWear™ arrests the damage, seals and waterproofs the surface, protects the pavement structure, restores skid resistance and prolongs pavement life with a high performance, distress resistant surface.

UltraWear™, offered by Colas Solutions and originally developed within the family of Colas Companies provides the following benefits to your pavement project.

- Reduces potential for delamination found with thin overlays
- High friction, durable aggregates offer long pavement life
- Sheds water, reducing backspray and hydroplaning
- Improves visibility and safety
- Protects against early raveling
- Eliminates loose chips which can occur with chip seal surfacing

UltraWear™ is a valuable surface treatment for preserving existing pavements and new construction on both asphalt and Portland cement concrete surfaces.

## A superior pavement preservation treatment for all types of pavements

UltraWear™ surfacing systems are suitable for use on all types of roads and highways as well as airports. The existing pavements should be in good condition, with sound base structure and minor surface imperfections. Any cracks greater than 1/4" should be sealed prior to application. The UltraWear™ aggregates meet high standards for soundness, shape and abrasion resistance. The gap grading leaves sufficient space for the emulsion membrane, while providing a strong, distress resistant, stone-on-stone structure and open surface. UltraWear™ is available in three types and aggregate gradations for even the most demanding applications.

- UltraWear™ Type A has a total mat thickness of 3/8" and is suitable for pavements where tighter surfaces are needed, such as airport runways or low traffic residential areas, or residential areas, friendly to families on bikes, rollerblades and skateboards.
- UltraWear™ Type B is usually applied to a total mat thickness of 9/16". Type B has a more open texture and higher friction properties than Type A.
- UltraWear™ Type C is a heavy duty grade designed for demanding high traffic pavements and applied at a typical 3/4" mat. Type C provides the best friction numbers and is also the best at dissipating surface water.

Whichever grade is required for your particular application, the UltraWear™ surface will cure minor surface imperfections, provide a strong waterproofing seal against further deterioration by the elements, and protect your pavement investment for typically up to 10 years or longer.



A thin lift of high quality UltraWear™ arrests the damage, waterproofs the surface, protects the pavement structure, restores skid resistance and prolongs pavement life.



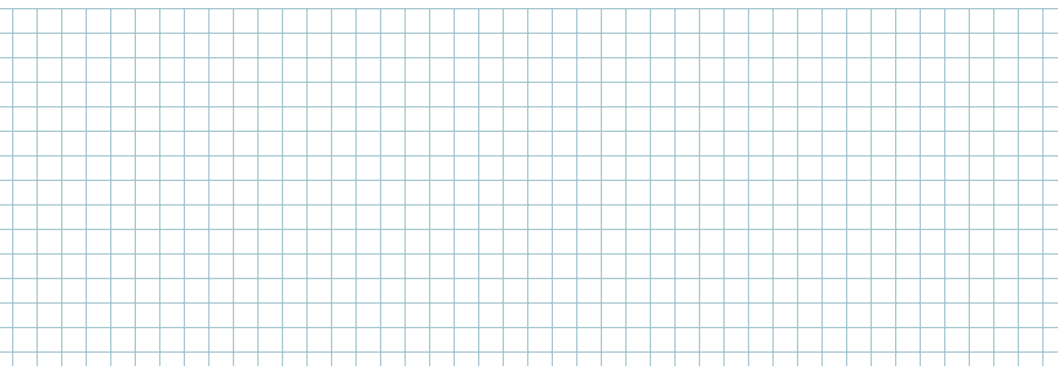
## A solution for stretching those paving dollars

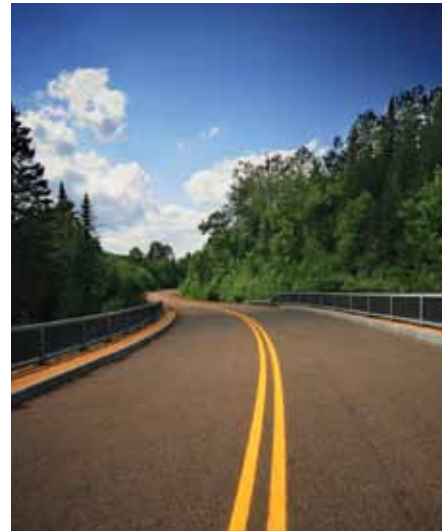
Most of our pavement infrastructure was built in the 1950's and 60's. The increases in traffic numbers and loads have vastly outpaced the increase in capacity. Roads and bridges built for the traffic of the mid 20th century are now deteriorating.

Rehabilitation and reconstruction cost from 6 to 10 times more than preventive maintenance. UltraWear™ surfacing protects our pavement investment with one of the longest lasting surface treatments, providing the driving public with the high quality and safe roads they pay for. The ultrathin lift restores the pavement surface to the levels the public deserves with minimal material costs. UltraWear™ is one of the most effective tools in the Pavement Preservation toolkit. The following are just some of the UltraWear™ advantages:

- Suitable for rehabilitating all types of asphalt and cement pavements
- Provides superior bonding and ravel resistance
- Reduces tire noise
- Reduces user delay costs
- Extends pavement life
- Improves safety
- Reduces life cycle costs

Colas Solutions' UltraWear™ surfacing technologies have been proven in thousands of miles in the field all over the world. Numerous university, government and independent laboratory researchers have all reached the same conclusion: UltraWear™ is one of the most cost-efficient and safe, ultrathin surface treatments for extending pavement life.





## Quality Adherence

The Colas quality system provides the tools by which we measure our performance, acting as a catalyst in promoting continuous improvement. It plays an integral part in all our day to day activities. Colas Solutions™ is committed to the provision of products and services that meet or exceed Colas and industry requirements. Through a structured program of quality improvement projects, specific initiatives, measurement of performance and encouragement of ideas, we aim to exceed our target of continuous improvement in the quality of every thing we do.



## A world of innovation with a local presence

Colas Solutions™ brings a world of innovations to you through the hands of our highly trained and experienced local contractors and representatives. We work with you to survey conditions and choose the right solution. Many times we already know the neighborhood, infrastructure and preservation needs because we also live there.

With Colas Solutions™, we don't just sell products and services. We believe in education and strive to help you understand how to choose the right systems, materials, and construction resources. We work with your staff to provide the technical assistance and construction services they may need to effectively design, build, maintain, and preserve your pavement and infrastructure investment network. We work with each of our customers with a high level of integrity and business ethics, cognizant of the fact that trust must be earned before it can be given. And when you choose Colas Solutions™, you'll know you're addressing it with products and services that respect and protect the environment as well as the safety of the communities we live in.

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