ADMIXUS® MST Fibrillated HDPE Fiber in High-Performance Micro-Surfacing & Slurry Systems

Maximum Performance. Zero Operational Friction.

ADMIXUS® MST fibrillated HDPE fiber at 0.5% dosage provides the ultimate balance of structural integrity and job-site efficiency for pavement preservation professionals. While traditional fibers require expensive augers or specialized feeders, ADMIXUS® MST is engineered for **instant dispersion** into your existing emulsion or pugmill system, and **no plugging** of application equipment.

1. Redefined Performance

Elevate your micro-surfacing specifications with a binder that resists wear and holds aggregate longer.

- **Superior Wear Resistance:** Reduces ASTM Wet Track Abrasion (WTA) weight loss by **45–50%**.
- **Rapid Cohesion & Cure:** Improves film formation by **85–90%**, even in challenging conditions.
- **Uniform Integrity:** Reduces pinholes and film inconsistencies, creating a dense, impermeable matrix.

2. Mechanical Advantage (TDS Data)

Micro-surfacing requires a binder that can handle high shear and traffic stress without rutting or cracking. ADMIXUS® MST delivers significant mechanical gains over standard commercial controls.

Metric	Standard Control	ADMIXUS® MST (0.5%)	Improvement
Tensile Stress	1.0 MPa	**1.7 MPa**	**+70% Strength**
Tensile Strain	0.5 mm/mm	**2.2 mm/mm**	**+340% Flexibility**
Modulus	1.0 MPa	**1.25 MPa**	**+25% Stiffness**
Toughness	0.5 units	**3.74 units**	**+648% Energy to Break**

Adapted from "Improving the Wet Track Abrasion of Asphalt Emulsion Sealers" by J. McJunkins, B. Prezzavento and A. Curcio, January 2021, *PCI Magazine*, p. 42.

3. The Productivity Edge: No Auger Required

Stop fighting with fibers that ball up or require specialized induction equipment.

- **Seamless Mixing:** Unlike long-strand synthetic fibers, MST's highly fibrillated structure allows for uniform distribution with standard agitation.
- **Reduce Equipment Costs:** No need for dedicated fiber feeders or high-shear blowers—use your existing equipment.
- **Formulation Efficiency:** The addition of MST may enable formulators to reduce concentrations of other expensive raw materials while maintaining performance.

4. Field-Proven Durability

- **Chemical & Fuel Resilience:** Tested to maintain structural integrity even after a **6-day gasoline soak** prior to Wet Track Abrasion testing.
- **Low-Temperature Stability:** Proven film development when cured at **55°F**, ensuring successful applications in early-season or nighttime paving.
- **Target Applications:** High-traffic highways, urban arterials, airport runways, and heavy-duty slurry seals.

Contact us for more information about ADMIXUS® MST fibrillated HDPE:
Phone: +1.423.282.4242 **Web:** www.minifibers.com

MINIFIBERS, INC.

Information in this bulletin is the best available to us and is believed to be correct. No warranty is expressed or implied regarding its accuracy on the use of the product. It is expressly understood that any technical advice or assistance that may be provided by MiniFIBERS is rendered without compensation, and MiniFIBERS assumes no obligation or liability for such advice or assistance given, or for results obtained.