



Bringing Integrity to the Surface.®

PRODUCT
INFORMATION

MICROAD™

Polymer-Modified Microsurfacing System

COMPOSITION

The MICROAD™ Polymer-Modified Microsurfacing System can be used to solve a variety of problems to city streets, highway, and airport runways. It is a mixture similar to slurry seal with aggregate, asphalt emulsion, water and mineral fillers. Instead of traditional asphalt emulsion, MICROAD™ uses advanced polymers and additives to improve the wear surface.

CHARACTERISTICS

MICROAD™ is capable of being spread in various thicknesses (wedges, ruts, scratch course). After initial consolidation, the surface does not further compact or resist compaction throughout the entire design tolerance range of bitumen content. It also maintains good macro-texture (high friction) in variable thickness sections throughout the service life of the pavement system.

APPLICATION

The MICROAD™ Microsurfacing System is applied to existing pavements using specifically calibrated equipment. These specialized machines carry all components, mixes them on site, and spreads the mixture onto the road surface. Materials are continuously and accurately measured, and then thoroughly combined in the MICROAD™ surfacing machine's mixer. As the machine moves forward, the mixture is continuously fed into a full-width surfacing box which spreads the width of a traffic lane in a single pass. Specialized "rut" boxes are designed to deliver the largest aggregate particles into the deepest part of the rut to give maximum stability in the wheel path. Edges of the application are automatically feathered.

CAUTIONS

Contains asphaltic materials. Harmful or fatal if swallowed. Do not induce vomiting. Avoid prolonged contact with skin and breathing of vapors. Flush skin with water immediately. Use with adequate ventilation. In case of contact with eyes, flush eyes with water and call physician. KEEP FROM FREEZING.

EMULSION SPECIFICATIONS

MICROAD™ Polymer Modified Asphalt Emulsion

Tests on Emulsion	Method	Min.	Max.
Viscosity, Saybolt Furol @ 77°F, seconds	AASHTO T-59	20	100
Storage Stability Test ¹ , 24 hr, percent	AASHTO T-59		1
Particle Charge Test ²	AASHTO T-59	Positive	
Sieve Test, percent	AASHTO T-59		0.5
Residue ³ , percent	AASHTO T-59	62	
Tests on Residue From Distillation			
Penetration, 77°F, 100 g, 5 seconds	AASHTO T-49	40	90
Ductility, 25° C, 5 cm/min, cms	AASHTO T-51	40	
Softening Point, R & B, degrees	AASHTO T-53	135°F (57°C)	
Solubility, in Trichloroethylene, percent	AASHTO T-44	97.5	

¹The storage stability test may be waived provided the asphalt emulsion storage tank at the project site has adequate provisions for circulating the entire contents of the tank, and provided satisfactory field results are obtained. The material surface shall show no white, milky colored substance.

²If the particle charge test is inconclusive, material having a maximum pH value of 6.7 will be adequate.

³AASHTO T-59 shall be modified to include a 400°F +/- 10°F maximum temperature to be held for a period of 15 minutes.